

**Last Revised: February 6, 2025****Summary of Updates to the Tables Accompanying the Texas Risk Reduction Program (TRRP) Rule<sup>1</sup>**

| Date of Change | Change Made                                                                                                                                                                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2/6/2025       | Dioxins/furans, polychlorinated; (reported as 2,3,7,8-TCDD TEQ): RfD and PCLs revised                                                                                                                                                                                       |
| 2/6/2025       | Perfluorododecanoic acid (Dodecanoic acid, tricosafuoro-) [PFDoA] and Perfluorotridecanoic acid (Tridecanoic acid, pentacosafuoro-) [PFTrDAI]: PCLs revised due to increased rounding accuracy.                                                                             |
| 2/6/2025       | Carbon tetrachloride: URF and RfC revised                                                                                                                                                                                                                                   |
| 2/6/2025       | Tert-butyl alcohol (2-methyl-2-propanol): RfDo revised and RfC added                                                                                                                                                                                                        |
| 2/6/2025       | Beryllium: RfC revised                                                                                                                                                                                                                                                      |
| 2/6/2025       | Nitrobenzene: RfC revised                                                                                                                                                                                                                                                   |
| 2/6/2025       | RfDo value for 1-propanol was corrected to 2 mg/kg-day on the Toxicity Factors table to reflect the value used in RBEL calculations                                                                                                                                         |
| 5/10/2023      | Nitrate: <sup>GW</sup> Soil <sub>Ing</sub> PCLs removed from 30 acre source area in Tables 1 and 2 to be consistent with the 11/8/2019 change (see footnote in PCL tables)                                                                                                  |
| 5/10/2023      | Bromodichloromethane, Bromoform, Chloroform, and Dibromochloromethane: <sup>GW</sup> GW <sub>Ing</sub> PCLs were corrected with the MCL for total trihalomethanes in Table 3. <sup>GW</sup> Soil <sub>Ing</sub> PCLs were corrected in Tables 1 and 2                       |
| 3/6/2023       | Dibenzothiophene: RfD revised                                                                                                                                                                                                                                               |
| 3/6/2023       | Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]: RfD and RfC revised                                                                                                                                                                                             |
| 3/6/2023       | Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]: RfD revised                                                                                                                                                                                                  |
| 3/6/2023       | Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]: RfD revised                                                                                                                                                                                                  |
| 3/1/2022       | Glyphosate: RfDo revised                                                                                                                                                                                                                                                    |
| 3/1/2022       | Thallium: CAS corrected from 7791-12-0 to 7440-28-0 in Toxicity Factors, Chem/Phys Properties, and ABS <sub>GI</sub> /ABS.d tables.                                                                                                                                         |
| 1/6/2021       | Amino-2,6-dinitrotoluene, 4-: Sfo and RfDo revised                                                                                                                                                                                                                          |
| 1/6/2021       | Amino-2,6-dinitrotoluene, 2-: Sfo and RfDo revised                                                                                                                                                                                                                          |
| 1/6/2021       | Bis (2-chloro-1-methyl) ether: Name corrected to Bis (2-chloro-1-methylethyl) ether                                                                                                                                                                                         |
| 1/6/2021       | Bromodichloromethane: RfDo revised                                                                                                                                                                                                                                          |
| 1/6/2021       | Bromomethane: RfC revised                                                                                                                                                                                                                                                   |
| 1/6/2021       | Dichlorophenoxyacetic acid, 2,4- (2,4-D): RfDo revised                                                                                                                                                                                                                      |
| 1/6/2021       | Ethylene oxide: Class, URF revised                                                                                                                                                                                                                                          |
| 1/6/2021       | Hexanone, 2-: RfDo revised                                                                                                                                                                                                                                                  |
| 1/6/2021       | Lithium: RfDo revised                                                                                                                                                                                                                                                       |
| 1/6/2021       | Nitropropane, 2-: URF revised                                                                                                                                                                                                                                               |
| 1/6/2021       | Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-): Name corrected to Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-)                                                                                                                  |
| 1/6/2021       | Perfluorooctanoic sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-): Name corrected to Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-)                                                                                                    |
| 1/6/2021       | PFAS (All): The common acronym for each compound was added                                                                                                                                                                                                                  |
| 1/6/2021       | Phosphorotriethioic acid, S,S,S-tributyl ester: RfDo revised                                                                                                                                                                                                                |
| 1/6/2021       | Propanol, 1-: RfDo revised                                                                                                                                                                                                                                                  |
| 1/6/2021       | Tetrachloroethylene: The common acronym (PCE) was added                                                                                                                                                                                                                     |
| 1/6/2021       | Trichloroethylene: The common acronym (TCE) was added                                                                                                                                                                                                                       |
| 11/8/2019      | Benzo(i)fluoranthene: Sfo and URF revised                                                                                                                                                                                                                                   |
| 11/8/2019      | Bis (2-chloroisopropyl) ether: Name changed to Bis (2-chloro-1-methyl) ether                                                                                                                                                                                                |
| 11/8/2019      | Bromodichloromethane: <sup>GW</sup> GW <sub>Ing</sub> PCLs were replaced with the MCL for total trihalomethanes in Table 3, <sup>GW</sup> Soil <sub>Ing</sub> PCLs were revised in Tables 1 and 2, and footnote for total trihalomethanes was revised in Tables 1, 2 and 3. |
| 11/8/2019      | Bromoform: <sup>GW</sup> GW <sub>Ing</sub> PCLs were replaced with the MCL for total trihalomethanes in Table 3, <sup>GW</sup> Soil <sub>Ing</sub> PCLs were revised in Tables 1 and 2, and footnote for total trihalomethanes was revised in Tables 1, 2 and 3.            |
| 11/8/2019      | Chloroform: <sup>GW</sup> GW <sub>Ing</sub> PCLs were replaced with the MCL for total trihalomethanes in Table 3, <sup>GW</sup> Soil <sub>Ing</sub> PCLs were revised in Tables 1 and 2, and footnote for total trihalomethanes was revised in Tables 1, 2 and 3.           |
| 11/8/2019      | Cyclotrimethylenetrinitramine (RDX): Class, Sfo and RfD revised                                                                                                                                                                                                             |
| 11/8/2019      | Dibromochloromethane: <sup>GW</sup> GW <sub>Ing</sub> PCLs were replaced with the MCL for total trihalomethanes in Table 3, <sup>GW</sup> Soil <sub>Ing</sub> PCLs were revised in Tables 1 and 2, and footnote for total trihalomethanes was revised in Tables 1, 2 and 3. |
| 11/8/2019      | Dichloroethane, 1,2-: RfD revised                                                                                                                                                                                                                                           |
| 11/8/2019      | Diethanolamine: RfC added                                                                                                                                                                                                                                                   |
| 11/8/2019      | Dodecylphenol, 4-: Duplicate rows were eliminated                                                                                                                                                                                                                           |
| 11/8/2019      | Nitrate: <sup>GW</sup> Soil <sub>Ing</sub> PCLs removed (see footnote in PCL tables)                                                                                                                                                                                        |
| 11/8/2019      | Nonylphenol, 4-n-: Duplicate rows were eliminated                                                                                                                                                                                                                           |
| 11/8/2019      | Potassium: CAS revised                                                                                                                                                                                                                                                      |
| 11/8/2019      | Toxaphene: RfD added                                                                                                                                                                                                                                                        |
| 11/8/2019      | Triethanolamine: RfC added                                                                                                                                                                                                                                                  |
| 4/27/2018      | Chlorine: RfC revised                                                                                                                                                                                                                                                       |
| 4/27/2018      | Cobalt: URF and RfC revised                                                                                                                                                                                                                                                 |
| 4/27/2018      | Ethylene dibromide (dibromoethane, 1,2-): Class, URF and RfC revised                                                                                                                                                                                                        |
| 4/27/2018      | Manganese: RfC revised                                                                                                                                                                                                                                                      |
| 4/27/2018      | Transformer Mineral Oil: Added back into tables (accidentally left out in previous years)                                                                                                                                                                                   |
| 3/31/2017      | Benz(a)anthracene : Class, Sfo and URF revised                                                                                                                                                                                                                              |
| 3/31/2017      | Benzo-a-pyrene : Class, Sfo and URF revised; RfD and RfC added                                                                                                                                                                                                              |
| 3/31/2017      | Benzo-b-fluoranthene : Class, Sfo and URF revised                                                                                                                                                                                                                           |
| 3/31/2017      | Benzo-k-fluoranthene : Class, Sfo and URF revised                                                                                                                                                                                                                           |
| 3/31/2017      | Cadmium : Class, URF and RfC revised                                                                                                                                                                                                                                        |
| 3/31/2017      | Chromium (VI) : Class and RfD revised                                                                                                                                                                                                                                       |
| 3/31/2017      | Chrysene : Class, Sfo and URF revised                                                                                                                                                                                                                                       |
| 3/31/2017      | Dibenz-a,h-anthracene : Class, Sfo and URF revised                                                                                                                                                                                                                          |
| 3/31/2017      | Dichloroethane, 1,2- : URF and RfC revised                                                                                                                                                                                                                                  |
| 3/31/2017      | Dichloropropane, 1,2- : Class, Sfo, and RfD revised and URF added                                                                                                                                                                                                           |
| 3/31/2017      | Dimethylformamide, N,N- : NEW                                                                                                                                                                                                                                               |
| 3/31/2017      | Ethanol, 2-amino- : RfC added                                                                                                                                                                                                                                               |
| 3/31/2017      | Ethylene oxide : Class and URF revised                                                                                                                                                                                                                                      |
| 3/31/2017      | Heptane, n- : RfC revised                                                                                                                                                                                                                                                   |
| 3/31/2017      | Hexachloropropylene : Sfo and RfD revised, URF removed and RfC added                                                                                                                                                                                                        |
| 3/31/2017      | Indeno-1,2,3-cd-pyrene : Class, Sfo and URF revised                                                                                                                                                                                                                         |

**Last Revised: February 6, 2025****Summary of Updates to the Tables Accompanying the Texas Risk Reduction Program (TRRP) Rule<sup>1</sup>**

| Date of Change | Change Made                                                                                                                                                                                                                                                         |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3/31/2017      | Mercuric chloride : Chemical listing removed from tables. Mercury toxicity factors apply to all inorganic forms of mercury.                                                                                                                                         |
| 3/31/2017      | Nitrate : name revised to Nitrate-N to be consistent with MCLs. Laboratories should report results in nitrate as nitrogen (Nitrate-N). If a laboratory reports the results in nitrate as nitrate (Nitrate-NO3), the conversion is Nitrate-N = 0.2259 x Nitrate-NO3. |
| 3/31/2017      | Nitrite : name revised to Nitrite-N to be consistent with MCLs. Laboratories should report results in nitrite as nitrogen (Nitrite-N). If a laboratory reports the results in nitrite as nitrite (Nitrite-NO2), the conversion is Nitrite-N = 0.3045 x Nitrite-NO2. |
| 3/31/2017      | Pentane : RfD revised                                                                                                                                                                                                                                               |
| 3/31/2017      | Phenol, 4-tert-butyl- : RfD revised                                                                                                                                                                                                                                 |
| 3/31/2017      | Thallium and compounds : name revised to Thallium and RfD revised                                                                                                                                                                                                   |
| 3/31/2017      | Triaminotrinitrobenzene (TATB) : Sfo removed                                                                                                                                                                                                                        |
| 3/31/2017      | Trichloro-1,2,2-trifluoroethane, 1,1,2- : RfC revised                                                                                                                                                                                                               |
| 3/31/2017      | Trimethylbenzene, 1,2,3- : RfD and RfC revised                                                                                                                                                                                                                      |
| 3/31/2017      | Trimethylbenzene, 1,2,4- : RfD and RfC revised                                                                                                                                                                                                                      |
| 3/31/2017      | Trimethylbenzene, 1,3,5- : RfD and RfC revised                                                                                                                                                                                                                      |
| 3/4/2016       | Asbestos, removed from all tables: URF removed in 2011. Contact your TCEQ project manager if asbestos may be a chemical of concern.                                                                                                                                 |
| 3/4/2016       | Chlordane, gamma : name revised to Chlordane, trans- (gamma chlordane)                                                                                                                                                                                              |
| 3/4/2016       | Dimethyl-2-nitrobenzene, 1,3- : NEW                                                                                                                                                                                                                                 |
| 3/4/2016       | Dimethyl-3-nitrobenzene, 1,2- : NEW                                                                                                                                                                                                                                 |
| 3/4/2016       | Dimethyl-4-nitrobenzene, 1,2- : NEW                                                                                                                                                                                                                                 |
| 3/4/2016       | Dimethyl-5-nitrobenzene, 1,3- : NEW                                                                                                                                                                                                                                 |
| 3/4/2016       | Ethoxy ethanol, 2- : Henry's Law Constant revised                                                                                                                                                                                                                   |
| 3/4/2016       | Perfluorooctanoic sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) : RfC revised                                                                                                                                                                           |
| 3/4/2016       | Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) : RfD revised                                                                                                                                                                                                 |
| 3/4/2016       | Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) : RfD revised                                                                                                                                                                                                 |
| 3/4/2016       | Perfluorododecanoic acid (Dodecanoic acid, tricosafuoro-) : RfC revised                                                                                                                                                                                             |
| 3/4/2016       | Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) : RfC revised                                                                                                                                                                                               |
| 3/4/2016       | Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) : RfD and RfC revised                                                                                                                                                                         |
| 3/4/2016       | Perfluorobutyric acid (Butanoic acid, heptafluoro-) : RfC revised                                                                                                                                                                                                   |
| 3/4/2016       | Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) : RfC revised                                                                                                                                                                                    |
| 12/16/2015     | Ammonia: Class and RfC revised                                                                                                                                                                                                                                      |
| 12/16/2015     | Chromium (VI): URF and RfC revised                                                                                                                                                                                                                                  |
| 12/16/2015     | Dicyclopentadiene: Class and RfD revised and RfC was removed                                                                                                                                                                                                        |
| 12/16/2015     | Ethyl acrylate: RfD and RfC added                                                                                                                                                                                                                                   |
| 12/16/2015     | Isopropyl alcohol: RfD revised and RfC added                                                                                                                                                                                                                        |
| 12/16/2015     | Methyl-5-nitroaniline, 2- (5-nitro-o-toluidine): Chemical removed from PCL Tables because Sfo removed in 2014 and the chemical has no other toxicity factors                                                                                                        |
| 12/16/2015     | Perfluoro Acids (All): RfDs revised                                                                                                                                                                                                                                 |
| 12/16/2015     | Phenol: Class revised and RfC added                                                                                                                                                                                                                                 |
| 12/16/2015     | Triethylene glycol: Class and RfD revised                                                                                                                                                                                                                           |
| 12/16/2015     | Tungsten (as sodium tungstate dihydride): NEW                                                                                                                                                                                                                       |
| 11/12/2014     | Aluminum and Silver: Correction for error in Comm/Ind Groundwater PCL                                                                                                                                                                                               |
| 11/12/2014     | Arsenic: calculation error                                                                                                                                                                                                                                          |
| 11/12/2014     | Cadmium: calculation error                                                                                                                                                                                                                                          |
| 11/12/2014     | Dimethylaminoazobenzene, p: calculation error                                                                                                                                                                                                                       |
| 11/12/2014     | Perfluoro Acids (All): calculation error                                                                                                                                                                                                                            |
| 9/10/2014      | Acenaphthene: Class revised                                                                                                                                                                                                                                         |
| 9/10/2014      | Acetone cyanohydrin: Class revised                                                                                                                                                                                                                                  |
| 9/10/2014      | Acrolein: RfC revised                                                                                                                                                                                                                                               |
| 9/10/2014      | Arsenic: URF updated                                                                                                                                                                                                                                                |
| 9/10/2014      | Biphenyl, 1,1: Class revised                                                                                                                                                                                                                                        |
| 9/10/2014      | Biphenyl, 1,1: RfD revised                                                                                                                                                                                                                                          |
| 9/10/2014      | Butanal (butyraldehyde): RfC added                                                                                                                                                                                                                                  |
| 9/10/2014      | Butene, 1: RfC revised                                                                                                                                                                                                                                              |
| 9/10/2014      | Butene, cis-2: RfC revised                                                                                                                                                                                                                                          |
| 9/10/2014      | Butene, trans-2: RfC revised                                                                                                                                                                                                                                        |
| 9/10/2014      | Butyl acetate: RfC revised                                                                                                                                                                                                                                          |
| 9/10/2014      | Butylbenzene, sec-: Class revised                                                                                                                                                                                                                                   |
| 9/10/2014      | Butylbenzene, tert-: Class revised                                                                                                                                                                                                                                  |
| 9/10/2014      | Cadmium: RfC added                                                                                                                                                                                                                                                  |
| 9/10/2014      | Chloroethanol, 2- :Class and RfD revised                                                                                                                                                                                                                            |
| 9/10/2014      | Chloromethane (methyl chloride): RfD added                                                                                                                                                                                                                          |
| 9/10/2014      | Chloromethane: Class revised                                                                                                                                                                                                                                        |
| 9/10/2014      | Cobalt: RfD revised                                                                                                                                                                                                                                                 |
| 9/10/2014      | Copper: RfD revised                                                                                                                                                                                                                                                 |
| 9/10/2014      | Desethylatrazine: NEW                                                                                                                                                                                                                                               |
| 9/10/2014      | Dibenzothiophene: Class and RfD revised                                                                                                                                                                                                                             |
| 9/10/2014      | Dichlorobenzene, 1,4- RfC revised                                                                                                                                                                                                                                   |
| 9/10/2014      | Dinitrotoluene, 2,6- RfD reference revised                                                                                                                                                                                                                          |
| 9/10/2014      | Di-n-octyl phthalate: Class and RfD revised                                                                                                                                                                                                                         |
| 9/10/2014      | Dioxane, 1,4: RfC revised; URF added                                                                                                                                                                                                                                |
| 9/10/2014      | Ethoxy ethanol, 2: RfD revised                                                                                                                                                                                                                                      |
| 9/10/2014      | Ethyl acetate: Class and RfD revised; RfC added                                                                                                                                                                                                                     |
| 9/10/2014      | Fenuron: NEW                                                                                                                                                                                                                                                        |
| 9/10/2014      | Fluoranthene: Class revised                                                                                                                                                                                                                                         |
| 9/10/2014      | Isobutylene (2-methyl-1-propene): RfD added                                                                                                                                                                                                                         |
| 9/10/2014      | Manganese: RfC revised                                                                                                                                                                                                                                              |
| 9/10/2014      | Methacrylonitrile: Class and RfD revised; RfC added                                                                                                                                                                                                                 |
| 9/10/2014      | Methanol: RfD revised                                                                                                                                                                                                                                               |
| 9/10/2014      | Methoxyethanol, 2: RfD revised                                                                                                                                                                                                                                      |

**Last Revised: February 6, 2025****Summary of Updates to the Tables Accompanying the Texas Risk Reduction Program (TRRP) Rule<sup>1</sup>**

| Date of Change | Change Made                                                                                                                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9/10/2014      | Methyl acrylate: Class revised; RfC added                                                                                                                                                                                   |
| 9/10/2014      | Methyl cyclohexane: Class revised                                                                                                                                                                                           |
| 9/10/2014      | Methyl-5-nitroaniline, 2- (5-nitro-o-toluidine): Sfo removed                                                                                                                                                                |
| 9/10/2014      | Methylene chloride (dichloromethane): Sfo and RfD revised                                                                                                                                                                   |
| 9/10/2014      | Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-): NEW                                                                                                                                                     |
| 9/10/2014      | Perfluorobutyric acid (Butanoic acid, heptafluoro-): NEW                                                                                                                                                                    |
| 9/10/2014      | Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafuoro-): NEW                                                                                                                                                 |
| 9/10/2014      | Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-): NEW                                                                                                                                                                |
| 9/10/2014      | Perfluorododecanoic acid (Dodecanoic acid, tricosafuoro-): NEW                                                                                                                                                              |
| 9/10/2014      | Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-): NEW                                                                                                                                                               |
| 9/10/2014      | Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-): NEW                                                                                                                                                  |
| 9/10/2014      | Perfluorohexanoic acid (Hexanoic acid, undecafluoro-): NEW                                                                                                                                                                  |
| 9/10/2014      | Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-): NEW                                                                                                                                                               |
| 9/10/2014      | Perfluorooctane sulfonamide (1-Octanesulfonamide, hetpadecafluoro-): NEW                                                                                                                                                    |
| 9/10/2014      | Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-): NEW                                                                                                                                                               |
| 9/10/2014      | Perfluorooctanoic sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-): NEW                                                                                                                                            |
| 9/10/2014      | Perfluoropentanoic acid (Pentanoic acid, nonafluoro-): NEW                                                                                                                                                                  |
| 9/10/2014      | Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosafuoro-): NEW                                                                                                                                                      |
| 9/10/2014      | Perfluorotridecanoic acid (Tridecanoic acid, pentacosafuoro-): NEW                                                                                                                                                          |
| 9/10/2014      | Perfluoroundecanoic acid (Undecanoic acid, uncosafuoro-): NEW                                                                                                                                                               |
| 9/10/2014      | Phenothiazine: RfD revised                                                                                                                                                                                                  |
| 9/10/2014      | Prometryn: NEW                                                                                                                                                                                                              |
| 9/10/2014      | Tetrachloroethylene: RfD revised                                                                                                                                                                                            |
| 9/10/2014      | Toluidine, o: Class and Sfo revised                                                                                                                                                                                         |
| 9/10/2014      | Toluidine, p: Class and Sfo revised                                                                                                                                                                                         |
| 9/10/2014      | Trinitrophenylmethylnitramine (tetryl; nitramine): RfD revised                                                                                                                                                              |
| 9/10/2014      | Uranium (soluble salts): RfC revised                                                                                                                                                                                        |
| 6/29/2012      | Benzenethiol: RfD revised                                                                                                                                                                                                   |
| 6/29/2012      | Chloro-1,3-butadiene, 2-: Class, URF, and RfC revised                                                                                                                                                                       |
| 6/29/2012      | Diisopropyl ether (2,2'-oxybis-propane): RfC revised                                                                                                                                                                        |
| 6/29/2012      | Dioxins/furans, polychlorinated; (reported as 2,3,7,8-TCDD TEQ): RfD was revised by USEPA; however, the TRRP rule sets the critical PCL at all 3 tiers for dioxin in soil [30 TAC 350.76(e)(3)] so the PCLs did not change. |
| 6/29/2012      | Ethyl-2-methyl benzene, 1-: RfD revised                                                                                                                                                                                     |
| 6/29/2012      | Ethyl-4-methyl benzene: RfD revised                                                                                                                                                                                         |
| 6/29/2012      | Hexachloroethane: Class, Sfo, RfD, URF, and RfC revised                                                                                                                                                                     |
| 6/29/2012      | Methoxyethanol, 2-: RfD revised                                                                                                                                                                                             |
| 6/29/2012      | Methyl-5-nitroaniline, 2- (5-nitro-o-toluidine): Class and Sfo revised                                                                                                                                                      |
| 6/29/2012      | Methylene chloride (dichloromethane): Class, Sfo, RfD, URF, and RfC revised                                                                                                                                                 |
| 6/29/2012      | Nickel and compounds: Class, URF, and RfC revised                                                                                                                                                                           |
| 6/29/2012      | Pentane: RfC revised                                                                                                                                                                                                        |
| 6/29/2012      | Phenothiazine: RfD revised                                                                                                                                                                                                  |
| 6/29/2012      | Sulfolane: RfD revised                                                                                                                                                                                                      |
| 6/29/2012      | Tetrachloroethylene: Class, Sfo, and RfD revised                                                                                                                                                                            |
| 6/29/2012      | Tetrahydrofuran: Class, RfD, and RfC revised                                                                                                                                                                                |
| 6/29/2012      | Trichloroethane, 1,1,1: Class and RfC revised                                                                                                                                                                               |
| 6/29/2012      | Trichloroethylene: Class, Sfo, RfD, URF, and RfC revised                                                                                                                                                                    |
| 6/29/2012      | Vanadium: RfD and RfC revised                                                                                                                                                                                               |
| 6/29/2012      | Added: Cyclohexene, 4-ethenyl-(aka 4-vinylcyclohexene); Isopentane; Cyclopentane; Methylstyrene, alpha-; Morpholine, 4-butyl                                                                                                |
| 5/24/2011      | Asbestos : URF (Unit Risk Factors) and soil PCLs removed. Contact your TCEQ Project Manager if asbestos may be a chemical of concern.                                                                                       |
| 5/24/2011      | Glyphosate : chemical/physical properties revised. Ionizing Koc data under review. Contact your TCEQ Project Manager if glyphosate may be a chemical of concern.                                                            |
| 5/24/2011      | TCDD, 2,3,7,8: (dioxin) : named revised to Dioxins/furans, polychlorinated; (reported as 2,3,7,8:TCDD TEQ)                                                                                                                  |
| 5/24/2011      | See list on next sheet for additional toxicity factors changes. For questions on toxicity factors, contact the Toxicology Section at 877-992-8370.                                                                          |
| 5/24/2011      | Added: Leptophos, Ethanol, 2-(methylamino)-, Hexene, cis-2-, Pentadiene, cis-1,3-, Cyclopentene, Pentene, 2.                                                                                                                |
| 3/31/2010      | Acrylamide : Sfo, RfD, URF and RfC revised                                                                                                                                                                                  |
| 3/31/2010      | Benzyl alcohol : RfD revised                                                                                                                                                                                                |
| 3/31/2010      | Bromobenzene : RfD and RfC revised                                                                                                                                                                                          |
| 3/31/2010      | Butanol, 2-: RfD and RfC revised                                                                                                                                                                                            |
| 3/31/2010      | Chromium (III) : RfC revised                                                                                                                                                                                                |
| 3/31/2010      | Chromium (Total) : RfC revised                                                                                                                                                                                              |
| 3/31/2010      | Diethylene glycol monobutyl ether : RfD and RfC revised                                                                                                                                                                     |
| 3/31/2010      | Fluorine : RfC revised                                                                                                                                                                                                      |
| 3/31/2010      | Hexanone, 2-: RfD and RfC revised                                                                                                                                                                                           |
| 3/31/2010      | Hydrazine : RfC revised                                                                                                                                                                                                     |
| 3/31/2010      | Hydroquinone : Sfo revised                                                                                                                                                                                                  |
| 3/31/2010      | Kepone (chlordecone) : Sfo and RfD revised                                                                                                                                                                                  |
| 3/31/2010      | Pentane : RfC revised                                                                                                                                                                                                       |
| 3/31/2010      | Titanium : RfD revised                                                                                                                                                                                                      |
| 3/31/2010      | Trichlorobenzene, 1,2,4- : Sfo and RfC revised                                                                                                                                                                              |
| 3/31/2010      | Trichloropropane, 1,2,3- : Sfo, RfD, and RfC revised                                                                                                                                                                        |
| 3/31/2010      | Vanadium : RfD revised                                                                                                                                                                                                      |
| 3/31/2010      | Added : Hexanedinitrile                                                                                                                                                                                                     |
| 3/25/2009      | Allyl Alcohol : RfC revised.                                                                                                                                                                                                |
| 3/25/2009      | Benzyl chloride: RfD and RfC revised.                                                                                                                                                                                       |
| 3/25/2009      | Bromobenzene: RfD and RfC revised.                                                                                                                                                                                          |
| 3/25/2009      | Butadiene, 1,3- : URF and RfC revised.                                                                                                                                                                                      |
| 3/25/2009      | Butyl benzyl phthalate : Sfo revised.                                                                                                                                                                                       |
| 3/25/2009      | Chloroaniline, p- : Sfo revised.                                                                                                                                                                                            |
| 3/25/2009      | Chloronitrobenzene, p- (1-chloro-4-nitrobenzene) : Sfo revised.                                                                                                                                                             |

**Last Revised: February 6, 2025****Summary of Updates to the Tables Accompanying the Texas Risk Reduction Program (TRRP) Rule<sup>1</sup>**

| Date of Change | Change Made                                                                                                                                             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3/25/2009      | Cobalt : RfD and RfC revised.                                                                                                                           |
| 3/25/2009      | Dibromo-3-chloropropane, 1,2- : URF revised.                                                                                                            |
| 3/25/2009      | Dichloro-2-butene, 1,4- :URF revised.                                                                                                                   |
| 3/25/2009      | Dichloro-2-butene, trans-1,4- :URF revised.                                                                                                             |
| 3/25/2009      | Dichlorobenzene, 1,4- : RfC revised.                                                                                                                    |
| 3/25/2009      | Dichloroethane, 1,2-: RfD revised.                                                                                                                      |
| 3/25/2009      | Dimethylbenzidine, 3,3'-: Sfo revised.                                                                                                                  |
| 3/25/2009      | Dinitrobenzene, 1,3- (dinitrobenzene, 2,4- ) : RfD revised.                                                                                             |
| 3/25/2009      | Formaldehyde : URF and RfC revised.                                                                                                                     |
| 3/25/2009      | Formic acid : RfC revised.                                                                                                                              |
| 3/25/2009      | Hydroquinone: Sfo and RfD revised.                                                                                                                      |
| 3/25/2009      | Isobutylene : RfC revised.                                                                                                                              |
| 3/25/2009      | Lithium : RfD revised.                                                                                                                                  |
| 3/25/2009      | Methylene-bis (2-chloroaniline) 4,4'- : Sfo revised.                                                                                                    |
| 3/25/2009      | Methylnaphthalene, 1- : Sfo revised.                                                                                                                    |
| 3/25/2009      | Nitroaniline, 4- :Sfo, RfD, and RfC revised.                                                                                                            |
| 3/25/2009      | Nitrobenzene : RfD, URF, and RfC revised.                                                                                                               |
| 3/25/2009      | Nitrosodimethylamine, N-: RfC revised.                                                                                                                  |
| 3/25/2009      | Nitrotoluene, o- (2-nitrotoluene) : Sfo and RfD revised.                                                                                                |
| 3/25/2009      | Propanal (propionaldehyde) : RfC revised.                                                                                                               |
| 3/25/2009      | Propylene glycol : RfD revised.                                                                                                                         |
| 3/25/2009      | Styrene : RfC revised.                                                                                                                                  |
| 3/25/2009      | Tetrachloroethane, 1,1,2,2- : RfD revised.                                                                                                              |
| 3/25/2009      | Tetrachloroethylene (PCE) : URF and RfC revised.                                                                                                        |
| 3/25/2009      | Toluene : RfC revised.                                                                                                                                  |
| 3/25/2009      | Toluenediamine, 2,6-: RfD revised.                                                                                                                      |
| 3/25/2009      | Trichloroethylene : Sfo, URF and RfC revised.                                                                                                           |
| 3/25/2009      | Trimethylbenzene, 1,2,4-: RfD revised.                                                                                                                  |
| 3/25/2009      | Vinyl Chloride : URF and RfC revised.                                                                                                                   |
| 3/25/2009      | Xylenes, Xylene, m-, Xylene, o-, and Xylene, p- : RfC revised.                                                                                          |
| 3/25/2009      | Chemicals added this year: Hexene, 1-, Diisopropylbenzene, p-                                                                                           |
| 4/23/2008      | Trichloroethane, 1,1,1- :RfC and RfD revised.                                                                                                           |
| 4/23/2008      | Benzene : RfC and URF revised.                                                                                                                          |
| 4/23/2008      | Butoxy ethanol, 2- : RfC revised.                                                                                                                       |
| 4/23/2008      | Dichloroethylene, 1,1- : RfC revised.                                                                                                                   |
| 4/23/2008      | Hexane, n- : RfC revised.                                                                                                                               |
| 4/23/2008      | Methyl amyl ketone (2:heptanone) : RfC revised.                                                                                                         |
| 4/23/2008      | Aluminum : RfD revised.                                                                                                                                 |
| 4/23/2008      | Bis (2-chloroethoxy) methane : RfD revised.                                                                                                             |
| 4/23/2008      | Chlorotoluene, p- (4-chlorotoluene) : RfD revised.                                                                                                      |
| 4/23/2008      | Dicyclopentadiene : RfC and RfD revised.                                                                                                                |
| 4/23/2008      | Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-) : RfD revised.                                                                                   |
| 4/23/2008      | Hexachlorobutadiene : RfD revised.                                                                                                                      |
| 4/23/2008      | Malononitrile : RfD revised.                                                                                                                            |
| 4/23/2008      | Nitroglycerin : RfD and Sfo revised.                                                                                                                    |
| 4/23/2008      | Nitrosodimethylamine, N-:RfD revised.                                                                                                                   |
| 4/23/2008      | Nitrotoluene, p- : RfD and Sfo revised.                                                                                                                 |
| 4/23/2008      | Trichlorophenol, 2,4,6- : RfD revised.                                                                                                                  |
| 4/23/2008      | Chloronitrobenzene, p- (1-chloro-4-nitrobenzene) : RfC revised.                                                                                         |
| 4/23/2008      | Dichloroethylene, trans-1,2 :RfC revised.                                                                                                               |
| 4/23/2008      | Diisopropyl ether (2,2'-oxybis-propane) : RfC revised.                                                                                                  |
| 4/23/2008      | Trimethylbenzene, 1,2,4- : RfC revised.                                                                                                                 |
| 4/23/2008      | Dibromo-3-chloropropane, 1,2- : Sfo revised.                                                                                                            |
| 4/23/2008      | Pentachloroethane : Sfo revised.                                                                                                                        |
| 4/23/2008      | Chemicals added this year : Phosphorotriethic acid, S,S,S-tributyl ester; Biphenyl, 1,1'-, 2-phenoxy-; Hexanediamine, 1,6-; Ethanol, 2-(2-aminoethoxy)- |
| 3/30/2007      | Acetone cyanohydrin : RfD and RfC revised.                                                                                                              |
| 3/30/2007      | Adipic acid (hexanedioic acid) : RfD revised.                                                                                                           |
| 3/30/2007      | Aluminum : RfD revised.                                                                                                                                 |
| 3/30/2007      | Benzyl alcohol : RfD revised.                                                                                                                           |
| 3/30/2007      | Bromobenzene : RfC revised.                                                                                                                             |
| 3/30/2007      | Cacodylic acid : RfD revised.                                                                                                                           |
| 3/30/2007      | Chlorobenzene : RfC revised.                                                                                                                            |
| 3/30/2007      | Chloroform : RfC revised.                                                                                                                               |
| 3/30/2007      | Chloronitrobenzene, p- (1-chloro-4-nitrobenzene) : Sfo revised and RfD added.                                                                           |
| 3/30/2007      | Cobalt : RfD and RfC revised and URF added.                                                                                                             |
| 3/30/2007      | Dibromo-3-chloropropane, 1,2- : RfD added.                                                                                                              |
| 3/30/2007      | Dichloroethane, 1,1- : RfD revised.                                                                                                                     |
| 3/30/2007      | Dichloropropane, 1,3- : RfD revised.                                                                                                                    |
| 3/30/2007      | Diethylene glycol monobutyl ether : RfD revised.                                                                                                        |
| 3/30/2007      | Diisopropyl ether (2,2'-oxybis-propane) : RfC revised.                                                                                                  |
| 3/30/2007      | Dimethylbenzidine, 3,3': Sfo revised.                                                                                                                   |
| 3/30/2007      | Dinitrobenzene, 1,4- : RfD revised.                                                                                                                     |
| 3/30/2007      | Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-) : RfD revised.                                                                                   |
| 3/30/2007      | Di:n-octyl phthalate : RfD revised.                                                                                                                     |
| 3/30/2007      | Epichlorohydrin : RfD revised.                                                                                                                          |
| 3/30/2007      | Ethylenediamine : RfD revised.                                                                                                                          |
| 3/30/2007      | Formic acid : RfC revised.                                                                                                                              |
| 3/30/2007      | Hexane, n- : RfD and RfC revised.                                                                                                                       |
| 3/30/2007      | Hexanoic acid : RfD revised.                                                                                                                            |
| 3/30/2007      | Hydroquinone : Sfo added.                                                                                                                               |
| 3/30/2007      | Kepone (chlordecone) : Sfo and RfD revised.                                                                                                             |
| 3/30/2007      | Malononitrile : RfD revised.                                                                                                                            |

**Last Revised: February 6, 2025****Summary of Updates to the Tables Accompanying the Texas Risk Reduction Program (TRRP) Rule<sup>1</sup>**

| Date of Change | Change Made                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3/30/2007      | Methylene-bis (2-chloroaniline) 4,4'- : RfD revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3/30/2007      | Nitroaniline, 2 : RfD and RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3/30/2007      | Nitroaniline, 3- :Sfo revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3/30/2007      | Nitroaniline, 4- :Sfo and RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3/30/2007      | Nitrosodimethylamine, N-: RfD added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3/30/2007      | Nitrosodiphenylamine, N- :RfD added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3/30/2007      | Nitrotoluene, m- :RfD revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3/30/2007      | Nitrotoluene, o- :Sfo added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3/30/2007      | Nitrotoluene, p- : Sfo added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3/30/2007      | Propylene glycol : RfD and RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3/30/2007      | Tetrachloroethane, 1,1,2,2- : RfD revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3/30/2007      | Trichlorobenzene, 1,2,4- : RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3/30/2007      | Trichloroethane, 1,1,1- : RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3/30/2007      | Trinitrophenylmethylnitramine (tetryl; nitramine) : RfD revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3/30/2007      | Xylene, m- :RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3/30/2007      | Xylene, o- :RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3/30/2007      | Xylene, p- :RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3/30/2007      | >8-10 C aliphatics (TPH) : RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3/30/2007      | >10-12 C aliphatics (TPH) : RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3/30/2007      | >12-16 C aliphatics (TPH) : RfC revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3/30/2007      | Chemicals added this year : 1,2-benzenedicarboxylic acid, disodecyl ester, Butyl methacrylate, Ethanol, 2-amino-, ethanol, 2-(2-ethoxyethoxy)-, Nonene, 1-n-, tetraoxadodecane, 2,5,8,11-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3/31/2006      | Barium : RfD was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3/31/2006      | Benzene : RfD corrected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3/31/2006      | Di-n-octyl phthalate : RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3/31/2006      | Ethylene dibromide : URF was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3/31/2006      | Hexane : RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3/31/2006      | Hexanoic acid : RfD revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3/31/2006      | Nonyphenol : RfD revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3/31/2006      | Tert-amyl-methyl-ether (TAME) : RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3/31/2006      | Toluene : RfD and RfC were revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3/31/2006      | Chemicals added this year : Hydrocaproic acid, 6-, Monocrotophos, Nonylphenol ethoxylate, Prothiofos, Sodium hypochlorite, Sulprofos, Tert-amyl-ethyl ether (TAEF), Tetrachlorvinphose (Stirophos), Tetraethyl pyrophosphate (TEPP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3/21/2005      | Boron : Carcinogenic classification and RfD were revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3/21/2005      | Cobalt : RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3/21/2005      | Dioxane, 1,4-: RfD was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3/21/2005      | Ethylene dibromide : Sfo, and URF were revised. RfD and RfC were added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3/21/2005      | Perchlorate : RfD was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3/21/2005      | Chemicals added this year : Acetate, 2-ethoxyethanol, Acetate, isoamyl, Acetate, isobutyl, Acetate, sec-butyl, Benzenedicarbonitrile, 1,3-, Benzo-j-fluoranthene, Benzophenone, Benzoyl peroxide, Bromacil, Butadiene, 2-methyl-1,3- (isoprene), Butane, 2,3-dimethyl-, Butanol, 2-, Butanol, 2-methyl-2-, Butene, 1-, Butene, cis-2-, Butene, trans-2-, Cyclopentane, methyl-, Dibenzo(a,e)pyrene, Dibenzo(a,h)pyrene, Dibenzo(a,i)pyrene, Dichlorimid, Dichlorofluoromethane, Dipropylene glycol, Hexanal, 2-ethyl-, Hydroquinone, Isoamyl alcohol, Isodecanol, Pentane, 2-methyl-, Pentane, 3-methyl-, Pentanol, 1-, Pentanol, 4-methyl-2-, Phenol, 4-tert-butyl-, Phenothiazine, and Tetraethylene glycol. |
| 3/31/2004      | Acetone : RfD was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3/31/2004      | Acrolein : RfD and carcinogenic classification were revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3/31/2004      | Adipic acid : RfD was revised; RfC was removed; RS-ESL was added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3/31/2004      | Benzene : RfD and RfC were revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3/31/2004      | Cyclohexane : RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3/31/2004      | Diisopropyl ether : RS-ESL was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3/31/2004      | Disodium Iminodiacetate : RfD was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3/31/2004      | Methyl Ethyl Ketone : RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3/31/2004      | Methyl isobutyl ketone : RfC was added (previously used a RS-ESL).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3/31/2004      | MTBE : reference for toxicity factors was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3/31/2004      | Nickel : RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3/27/2003      | Table containing K <sub>oc</sub> values for ionizing organic COCs as a function of pH was added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3/27/2003      | Adipic acid : RfD was revised; RfC was added; RS-ESL was removed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3/27/2003      | Aminobiphenyl, 4- :Sfo was revised; RfD and URF were removed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3/27/2003      | Ammonium sulfate entry was changed to ammonium salts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3/27/2003      | Aniline : RfD was added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3/27/2003      | Arsenic : refer to TRRP website for November 12, 2002 memorandum regarding implementation of new MCL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3/27/2003      | Bis (2-chloroethoxy) methane : Sfo and URF were revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3/27/2003      | Boron : RfC was added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3/27/2003      | Bromobenzene : reference for RfD was revised; RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3/27/2003      | Bromodichloromethane : MCL was removed; note was added regarding MCL for total trihalomethanes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3/27/2003      | Bromoform : MCL was removed; note was added regarding MCL for total trihalomethanes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3/27/2003      | Butadiene, 1,3: URF and carcinogenic classification were revised; RfC was added (previously used a RS:ESL).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3/27/2003      | Butyric acid : RfD was revised; RfC was added; RS-ESL was removed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3/27/2003      | Chloral hydrate : references for carcinogenic classification and RfD were revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3/27/2003      | Chloroform : MCL was removed; note was added regarding MCL for total trihalomethanes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3/27/2003      | Cyclohexane : RS-ESL was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3/27/2003      | Cyclohexanol : RS-ESL was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3/27/2003      | Dibenz-a,h-acridine : carcinogenic classification was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3/27/2003      | Dibromochloromethane : MCL was removed; note was added regarding MCL for total trihalomethanes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3/27/2003      | Dichlorobenzene, 1,2: RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3/27/2003      | Dichloroethylene, 1,1: Sfo and URF were removed; RfD was revised; RfC was added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3/27/2003      | Diethylhexyl adipate : MCL was added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3/27/2003      | Hexanoic acid : RfD and RfC were revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3/27/2003      | Kepone : carcinogenic classification was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3/27/2003      | Lithium : RfD was revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Last Revised: February 6, 2025****Summary of Updates to the Tables Accompanying the Texas Risk Reduction Program (TRRP) Rule<sup>1</sup>**

| Date of Change | Change Made                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3/27/2003      | Mercury : CAS number for mercuric chloride was added to entry.                                                                                                                                                                                                                                                                                                                                                                            |
| 3/27/2003      | MTBE : URF was revised.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3/27/2003      | Nitroglycerin : SFo was added.                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3/27/2003      | Nitrosopiperidine, N: carcinogenic classification was revised.                                                                                                                                                                                                                                                                                                                                                                            |
| 3/27/2003      | Perylene : RfD was revised.                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3/27/2003      | Phenol : RfD was revised.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3/27/2003      | Picloram : reference for RfD was revised.                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3/27/2003      | Safarole : carcinogenic classification was revised.                                                                                                                                                                                                                                                                                                                                                                                       |
| 3/27/2003      | Tetrachloroethylene : reference for carcinogenic classification was revised.                                                                                                                                                                                                                                                                                                                                                              |
| 3/27/2003      | Toluenediamine, 2,6: LogKoc was revised.                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3/27/2003      | Trichloroethylene : reference for carcinogenic classification was revised.                                                                                                                                                                                                                                                                                                                                                                |
| 3/27/2003      | Uranium : MCL was revised.                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3/27/2003      | Valeric acid : RfD and RfC were revised.                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3/27/2003      | Xylenes : RfD was revised; RfC was added (previously used a RS:ESL).                                                                                                                                                                                                                                                                                                                                                                      |
| 3/28/2002      | References for some tox values were revised.                                                                                                                                                                                                                                                                                                                                                                                              |
| 3/28/2002      | Arsenic : MCL was revised. Note that this change is significant enough for the executive director to require use of the new arsenic MCL, even if the SIN or RAP has already been submitted.                                                                                                                                                                                                                                               |
| 3/28/2002      | Nitrophenol, 3: RS-ESL was revised.                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3/28/2002      | Triaminotrinitrobenzene - H. unitless was corrected to reflect a value.                                                                                                                                                                                                                                                                                                                                                                   |
| 12/19/2001     | Several compounds were added to the tables which are not of human health concern but for which other criteria may apply. These are noted in the tables and an additional information table is referenced.                                                                                                                                                                                                                                 |
| 12/19/2001     | Ammonia : taste and odor value for groundwater was added to the secondary MCL column.                                                                                                                                                                                                                                                                                                                                                     |
| 12/19/2001     | Benzaldehyde : RS-ESL was revised.                                                                                                                                                                                                                                                                                                                                                                                                        |
| 12/19/2001     | Bis (2-chloroethoxy) methane : chemical/physical parameters were added.                                                                                                                                                                                                                                                                                                                                                                   |
| 12/19/2001     | Chlordane, gamma : chemical/physical parameters were added.                                                                                                                                                                                                                                                                                                                                                                               |
| 12/19/2001     | Chloroform : SFo was removed.                                                                                                                                                                                                                                                                                                                                                                                                             |
| 12/19/2001     | Chloromethane : RfC and carcinogenic classification were revised.                                                                                                                                                                                                                                                                                                                                                                         |
| 12/19/2001     | Cyclohexane : RS-ESL was revised.                                                                                                                                                                                                                                                                                                                                                                                                         |
| 12/19/2001     | Diethylene glycol monobutyl ether : RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                      |
| 12/19/2001     | Hexachlorocyclopentadiene : RfD, RfC, and carcinogenic classification were revised.                                                                                                                                                                                                                                                                                                                                                       |
| 12/19/2001     | Methyl acetate : RfD was revised.                                                                                                                                                                                                                                                                                                                                                                                                         |
| 12/19/2001     | Methyl cyclohexane : RfC was revised.                                                                                                                                                                                                                                                                                                                                                                                                     |
| 12/19/2001     | Perchlorate : RfD was revised. Note that this change is significant enough for the executive director to require use of the new perchlorate RfD, even if the SIN or RAP has already been submitted.                                                                                                                                                                                                                                       |
| 12/19/2001     | Quinoline : Carcinogenic classification and SFo were revised.                                                                                                                                                                                                                                                                                                                                                                             |
| 12/19/2001     | Triaminotrinitrobenzene : chemical/physical parameters were revised.                                                                                                                                                                                                                                                                                                                                                                      |
| 3/15/2001      | Please note that several COCs were added to the tables. New COCs added since the last publication of the tables are identified in the chemical/physical properties table and the ABS.d/ABS.qi table.                                                                                                                                                                                                                                      |
| 3/15/2001      | Based on conversations with ATSDR, it was determined that the MRL list provided on ATSDR's website ( <a href="http://www.atsdr.cdc.gov/mrls.html">http://www.atsdr.cdc.gov/mrls.html</a> ) lists official, more up-to-date MRLs than the May 23, 1996 FR version which were previously used for the tables. Many of the toxicity factors additions and revisions noted below were due to transitioning to this new source for MRL values. |
| 3/15/2001      | The reference to the 1995 MADEP document was removed and replaced by TNRCC-derived values. This only affected the RfD for one noncarcinogenic PAH (2-methylnaphthalene), which is noted below.                                                                                                                                                                                                                                            |
| 3/15/2001      | Acetaldehyde : RfD was added.                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3/15/2001      | Benzene : SFo was revised.                                                                                                                                                                                                                                                                                                                                                                                                                |

**Last Revised: February 6, 2025**

| <b>Summary of Updates to the Tables Accompanying the Texas Risk Reduction Program (TRRP) Rule<sup>1</sup></b> |                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Date of Change</b>                                                                                         | <b>Change Made</b>                                                                                                                                                                                                                                                                                                                                 |
| 3/15/2001                                                                                                     | Cadmium : ABS.d was changed to 0.001; RfC was removed.                                                                                                                                                                                                                                                                                             |
| 3/15/2001                                                                                                     | Chloral : RfD was revised.                                                                                                                                                                                                                                                                                                                         |
| 3/15/2001                                                                                                     | Chlordane : CAS number was corrected.                                                                                                                                                                                                                                                                                                              |
| 3/15/2001                                                                                                     | Chlorobenzene : RfC was added.                                                                                                                                                                                                                                                                                                                     |
| 3/15/2001                                                                                                     | Chloromethane : RfC was revised.                                                                                                                                                                                                                                                                                                                   |
| 3/15/2001                                                                                                     | Chlorotoluene, o: LogKoc and Dair were added to match Figure: 30 TAC §350.73(e) of the TRRP rule; Dwat was also added.                                                                                                                                                                                                                             |
| 3/15/2001                                                                                                     | Cyanide : Henry's Law Constant was added.                                                                                                                                                                                                                                                                                                          |
| 3/15/2001                                                                                                     | Dibenzofuran : chemical/physical parameters were revised.                                                                                                                                                                                                                                                                                          |
| 3/15/2001                                                                                                     | Dichlorobenzene, 1,3: chemical/physical parameters were corrected to match Figure: 30 TAC §350.73(e) of the TRRP rule.                                                                                                                                                                                                                             |
| 3/15/2001                                                                                                     | Dichloroethane, 1,2: RfC was revised.                                                                                                                                                                                                                                                                                                              |
| 3/15/2001                                                                                                     | Dichloropropene, 1,3- (mixed isomers) : RfD, Sfo, and URF were revised.                                                                                                                                                                                                                                                                            |
| 3/15/2001                                                                                                     | Dimethylphthalate : chemical/physical parameters were corrected to match Figure: 30 TAC §350.73(e) of the TRRP rule.                                                                                                                                                                                                                               |
| 3/15/2001                                                                                                     | Dinitro-2-methylphenol, 4,6- chemical/physical parameters were revised.                                                                                                                                                                                                                                                                            |
| 3/15/2001                                                                                                     | Endothall : Dair and Dwat were added.                                                                                                                                                                                                                                                                                                              |
| 3/15/2001                                                                                                     | Endrin : Dair and Dwat were added.                                                                                                                                                                                                                                                                                                                 |
| 3/15/2001                                                                                                     | Ethion : Dair and Dwat were added.                                                                                                                                                                                                                                                                                                                 |
| 3/15/2001                                                                                                     | Ethyl-2-methyl benzene, 1- and ethyl-4-methyl benzene, 1- MCLs were removed (had previously used toluene's MCL).                                                                                                                                                                                                                                   |
| 3/15/2001                                                                                                     | Formaldehyde : RfC was added (previously used a RS-ESL).                                                                                                                                                                                                                                                                                           |
| 3/15/2001                                                                                                     | Hexachlorocyclohexane, alpha : RfD was added.                                                                                                                                                                                                                                                                                                      |
| 3/15/2001                                                                                                     | Hexanone, 2: chemical/physical parameters were added.                                                                                                                                                                                                                                                                                              |
| 3/15/2001                                                                                                     | Kepone : Sfo and URF were added.                                                                                                                                                                                                                                                                                                                   |
| 3/15/2001                                                                                                     | Mercury: Tier 2 PCLs for site-specific soils with a pH $\geq$ 6.8 were provided for convenience in accordance with 350.73(f)(1). Persons should use the Tier 1 pH 4.9-based PCLs unless a site-specific soil pH $\geq$ 6.8 is demonstrated with site-specific soil samples. LogKd was revised to match Figure: 30 TAC §350.73(f) of the TRRP rule. |
| 3/15/2001                                                                                                     | Methylnaphthalene, 1: RfD was revised.                                                                                                                                                                                                                                                                                                             |
| 3/15/2001                                                                                                     | Methylnaphthalene, 2: RfD was revised.                                                                                                                                                                                                                                                                                                             |
| 3/15/2001                                                                                                     | MTBE : Sfo was revised.                                                                                                                                                                                                                                                                                                                            |
| 3/15/2001                                                                                                     | Naled : Dair value was added.                                                                                                                                                                                                                                                                                                                      |
| 3/15/2001                                                                                                     | Nickel : RfC was added.                                                                                                                                                                                                                                                                                                                            |
| 3/15/2001                                                                                                     | Nitrate : LogKoc and Henry's Law Constant were added.                                                                                                                                                                                                                                                                                              |
| 3/15/2001                                                                                                     | Nitroaniline, 3- and nitroaniline, 4: chemical/physical parameters were revised.                                                                                                                                                                                                                                                                   |
| 3/15/2001                                                                                                     | Nitrophenol, 2- and nitrophenol, 4: RS-ESLs were added; chemical/physical parameters were revised.                                                                                                                                                                                                                                                 |

Last Revised: February 6, 2025

| Summary of Updates to the Tables Accompanying the Texas Risk Reduction Program (TRRP) Rule <sup>1</sup> |                                                                                                                      |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Date of Change                                                                                          | Change Made                                                                                                          |
| 3/15/2001                                                                                               | t (exposure interval) was corrected to match Figure: 30 TAC §350.75(b)(1) of the TRRP rule (value changed slightly). |
| 3/15/2001                                                                                               | Tetrachloroethane, 1,1,2,2: RfD was revised.                                                                         |
| 3/15/2001                                                                                               | Tetraethyl lead was removed as a COC for the vegetable ingestion pathway (was previously considered to be a metal).  |
| 3/15/2001                                                                                               | Tetrahydrofuran : chemical/physical parameters were revised.                                                         |
| 3/15/2001                                                                                               | Thallium : LogKd was added.                                                                                          |
| 3/15/2001                                                                                               | Toluenediamine, 2,6: LogKoc was added.                                                                               |
| 3/15/2001                                                                                               | Trimethylbenzene, 1,2,3: MCL was removed (had previously used toluene's MCL).                                        |
| 3/15/2001                                                                                               | Uranium : RfC was added.                                                                                             |
| 3/15/2001                                                                                               | Vinyl chloride : SFo, RfD, URF, and RfC were revised.                                                                |
| 9/16/1999                                                                                               | Original TRRP tables available.                                                                                      |

**Footnote**

**1** As discussed in TRRP §350.73(a) and in the accompanying guidance document entitled Toxicity Factors and Chemical/Physical Parameters (RG-366/TRRP-19), persons are required to use the most current toxicity factors as of the date of submittal of the Self-Implementation Notice (SIN) or the Response Action Plan (RAP). The TCEQ provides toxicity factors on the agency's website as a convenience to users of the tables. However, since the tables are typically updated on an annual basis, it is the person's responsibility to ensure that they are using the most current toxicity factors according to the heirarchy described in §350.73(a). TCEQ project managers will verify that toxicity factors are current at the time of submittal of the SIN or RAP. Note that if the executive director determines during the review of the Response Action Completion Report (RACR) that a change in a toxicity factor since the submittal of the SIN or RAP has been of such a magnitude that the PCLs previously developed for a COC would clearly not be protective of human health and the environment, the adequacy of the response action must be reevaluated.

This table contains a list of all edits and additions to the TRRP PCL tables since 1999  
end of worksheet

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS        | 0.5 acre source area                            |   |                   |                                  |         |                   |                                      |   |                   |                                                  | 30 acre source area |                   |                                        |         |                   |                                     |         |                                                 |                   |                                  |         |                   |                                      |   |                   |                                                  |   |                   |                                        |   |                   |                                     |   |
|------------------------------------------|------------|-------------------------------------------------|---|-------------------|----------------------------------|---------|-------------------|--------------------------------------|---|-------------------|--------------------------------------------------|---------------------|-------------------|----------------------------------------|---------|-------------------|-------------------------------------|---------|-------------------------------------------------|-------------------|----------------------------------|---------|-------------------|--------------------------------------|---|-------------------|--------------------------------------------------|---|-------------------|----------------------------------------|---|-------------------|-------------------------------------|---|
|                                          |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) |   | note <sup>3</sup> | GWSoil <sub>Ing</sub><br>(mg/kg) |         | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) |   | note <sup>3</sup> | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) |                     | note <sup>3</sup> | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) |         | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) |         | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Ing</sub><br>(mg/kg) |         | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) |   | note <sup>3</sup> | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) |   | note <sup>3</sup> | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) |   | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) |   |
| Acenaphthene                             | 83-32-9    | 3.0E+03                                         | n | 2.4E+02           | n                                | 2.4E+04 | n >S              | —                                    | — | —                 | —                                                | —                   | —                 | 3.0E+03                                | n       | 1.2E+02           | n                                   | 1.2E+04 |                                                 |                   | n >S                             | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acenaphthylene                           | 208-96-8   | 3.8E+03                                         | n | 4.1E+02           | n                                | 4.1E+04 | n >S              | —                                    | — | —                 | —                                                | —                   | —                 | 3.8E+03                                | n       | 2.0E+02           | n                                   | 2.0E+04 | n >S                                            | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   |   |
| Acetaldehyde                             | 75-07-0    | 1.4E+02                                         | n | 5.0E+00           | n                                | 5.0E+02 | n                 | 1.4E+02                              | n | 4.8E+03           | n                                                | —                   | —                 | 7.3E+01                                | n       | 2.5E+00           | n                                   | 2.5E+02 | n                                               | 7.4E+01           | n                                | 3.1E+02 | n                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acetate, 2-ethoxyethanol                 | 111-15-9   | 3.5E+03                                         | n | 5.3E+00           | n                                | 5.3E+02 | n                 | 6.0E+03                              | n | 9.8E+05           | n >S                                             | —                   | —                 | 2.3E+03                                | n       | 2.7E+00           | n                                   | 2.7E+02 | n                                               | 3.1E+03           | n                                | 6.3E+04 | n                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acetate, isoamyl                         | 123-92-2   | 5.9E+03                                         | n | 8.7E+00           | n                                | 8.7E+02 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 5.9E+03                                | n       | 4.4E+00           | n                                   | 4.4E+02 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acetate, isobutyl                        | 110-19-0   | 3.9E+03                                         | n | 3.7E+00           | n                                | 3.7E+02 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 3.9E+03                                | n       | 1.8E+00           | n                                   | 1.8E+02 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acetate, sec-butyl                       | 105-46-4   | 3.9E+03                                         | n | 4.0E+00           | n                                | 4.0E+02 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 3.9E+03                                | n       | 2.0E+00           | n                                   | 2.0E+02 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acetic acid*                             | 64-19-7    | —                                               | — | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | —                   | —                 | —                                      | —       | —                 | —                                   | —       | —                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   |   |
| Acetone (2-propanone)                    | 67-64-1    | 6.6E+04                                         | n | 4.3E+01           | n                                | 4.3E+03 | n                 | 6.0E+05                              | n | 1.0E+06           | n >S                                             | —                   | —                 | 5.9E+04                                | n       | 2.1E+01           | n                                   | 2.1E+03 | n                                               | 3.1E+05           | n                                | 9.7E+05 | n >S              | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acetone cyanohydrin                      | 75-86-5    | 1.9E+02                                         | n | 1.4E-01           | n                                | 1.4E+01 | n                 | 4.3E+03                              | n | 6.6E+05           | n                                                | —                   | —                 | 1.8E+02                                | n       | 7.1E-02           | n                                   | 7.1E+00 | n                                               | 2.2E+03           | n                                | 4.3E+04 | n                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acetonitrile                             | 75-05-8    | 8.7E+02                                         | n | 1.5E+00           | n                                | 1.5E+02 | n                 | 1.3E+03                              | n | 6.2E+04           | n                                                | —                   | —                 | 5.3E+02                                | n       | 7.6E-01           | n                                   | 7.6E+01 | n                                               | 6.7E+02           | n                                | 4.0E+03 | n                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acetophenone                             | 98-86-2    | 6.7E+03                                         | n | 8.2E+00           | n                                | 8.2E+02 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 6.7E+03                                | n       | 4.1E+00           | n                                   | 4.1E+02 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acetylaminofluorene, 2-                  | 53-96-3    | 1.2E+00                                         | c | 4.5E-03           | c                                | 4.5E-01 | c                 | 1.9E+01                              | c | 1.2E+04           | c >S                                             | —                   | —                 | 1.1E+00                                | c       | 2.3E-03           | c                                   | 2.3E-01 | c                                               | 9.5E+00           | c                                | 9.9E+02 | c >S              | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acifluorfen, sodium                      | 62476-59-9 | 8.7E+02                                         | n | 2.0E+00           | n                                | 2.0E+02 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 8.7E+02                                | n       | 1.0E+00           | n                                   | 1.0E+02 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acridine                                 | 260-94-6   | 2.0E+02                                         | n | 7.5E+00           | n                                | 7.5E+02 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 2.0E+02                                | n       | 3.8E+00           | n                                   | 3.8E+02 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acrolein                                 | 107-02-8   | 3.2E+01                                         | n | 2.4E-02           | n                                | 2.4E+00 | n                 | 1.5E+02                              | n | 1.8E+04           | n                                                | —                   | —                 | 2.7E+01                                | n       | 1.2E-02           | n                                   | 1.2E+00 | n                                               | 7.8E+01           | n                                | 1.2E+03 | n                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acrylamide                               | 79-06-1    | 7.0E+00                                         | c | 3.5E-03           | c                                | 3.5E-01 | c                 | 2.8E+01                              | c | 7.2E+03           | c                                                | —                   | —                 | 5.7E+00                                | c       | 1.8E-03           | c                                   | 1.8E-01 | c                                               | 1.4E+01           | c                                | 4.8E+02 | c                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acrylic acid                             | 79-10-7    | 1.2E+02                                         | n | 2.4E+01           | n                                | 2.4E+03 | n                 | 1.2E+02                              | n | 3.0E+04           | n                                                | —                   | —                 | 6.2E+01                                | n       | 1.2E+01           | n                                   | 1.2E+03 | n                                               | 6.2E+01           | n                                | 1.9E+03 | n                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Acrylonitrile                            | 107-13-1   | 3.6E+00                                         | c | 3.3E-03           | c                                | 3.3E-01 | c                 | 5.3E+00                              | c | 1.1E+02           | c                                                | —                   | —                 | 2.2E+00                                | c       | 1.7E-03           | c                                   | 1.7E-01 | c                                               | 2.7E+00           | c                                | 7.4E+00 | c                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Adipic acid (hexanedioic acid)           | 124-04-9   | 1.3E+05                                         | n | 9.4E+01           | n                                | 9.4E+03 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 1.3E+05                                | n       | 4.7E+01           | n                                   | 4.7E+03 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Alachlor                                 | 15972-60-8 | 5.9E+01                                         | c | 1.9E-02           | m                                | 1.9E+00 | m                 | —                                    | — | —                 | —                                                | —                   | —                 | 5.9E+01                                | c       | 9.5E-03           | m                                   | 9.5E-01 | m                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Aldicarb                                 | 116-06-3   | 6.7E+01                                         | n | 1.8E-02           | m                                | 1.8E+00 | m                 | —                                    | — | —                 | —                                                | —                   | —                 | 6.7E+01                                | n       | 8.9E-03           | m                                   | 8.9E-01 | m                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Aldicarb sulfone                         | 1646-88-4  | 6.7E+01                                         | n | 1.4E-02           | m                                | 1.4E+00 | m                 | —                                    | — | —                 | —                                                | —                   | —                 | 6.7E+01                                | n       | 6.9E-03           | m                                   | 6.9E-01 | m                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Aldrin                                   | 309-00-2   | 5.0E-02                                         | c | 1.0E-01           | c                                | 1.0E+01 | c                 | 8.3E+00                              | c | 8.5E+03           | c >S                                             | —                   | —                 | 5.0E-02                                | c       | 5.1E-02           | c                                   | 5.1E+00 | c                                               | 4.3E+00           | c                                | 5.5E+02 | c >S              | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Allyl alcohol                            | 107-18-6   | 5.6E+00                                         | n | 2.5E-01           | n                                | 2.5E+01 | n                 | 5.7E+00                              | n | 6.1E+02           | n                                                | —                   | —                 | 2.9E+00                                | n       | 1.3E-01           | n                                   | 1.3E+01 | n                                               | 2.9E+00           | n                                | 3.9E+01 | n                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Allyl chloride                           | 107-05-1   | 1.5E+01                                         | n | 1.0E+00           | n                                | 1.0E+02 | n                 | 1.5E+01                              | n | 3.8E+01           | n                                                | —                   | —                 | 7.8E+00                                | n       | 5.1E-01           | n                                   | 5.1E+01 | n                                               | 7.9E+00           | n                                | 2.5E+00 | n                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Aluminum                                 | 7429-90-5  | 6.5E+04                                         | n | 1.7E+05           | n >S                             | 1.0E+06 | n >S              | —                                    | — | —                 | —                                                | 1.4E+03             | 6.4E+04           | n                                      | 8.6E+04 | n >S              | 1.0E+06                             | n >S    | —                                               | —                 | —                                | —       | 7.1E+02           | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   |   |
| Ametryn                                  | 834-12-8   | 6.0E+02                                         | n | 7.2E+00           | n                                | 7.2E+02 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 6.0E+02                                | n       | 3.6E+00           | n                                   | 3.6E+02 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Amino-2,6-dinitrotoluene, 4-             | 19406-51-0 | 3.3E+01                                         | n | 2.0E-01           | n                                | 2.0E+01 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 3.3E+01                                | n       | 1.0E-01           | n                                   | 1.0E+01 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Amino-4,6-dinitrotoluene, 2-             | 35572-78-2 | 3.3E+01                                         | n | 3.0E-01           | n                                | 3.0E+01 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 3.3E+01                                | n       | 1.5E-01           | n                                   | 1.5E+01 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine) | 92-67-1    | 7.7E-01                                         | c | 1.1E-02           | c                                | 1.1E+00 | c                 | —                                    | — | —                 | —                                                | —                   | —                 | 7.7E-01                                | c       | 5.4E-03           | c                                   | 5.4E-01 | c                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Aminopyridine, 4-                        | 504-24-5   | 1.3E+00                                         | n | 9.5E-04           | n                                | 9.5E-02 | n                 | —                                    | — | —                 | —                                                | —                   | —                 | 1.3E+00                                | n       | 4.7E-04           | n                                   | 4.7E-02 | n                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Ammonia <sup>9</sup>                     | 7664-41-7  | 4.9E+03                                         | n | —                 | —                                | —       | —                 | 4.9E+03                              | n | 1.8E+04           | n                                                | 3.1E+00             | 2.5E+03           | n                                      | —       | —                 | —                                   | —       | —                                               | 2.5E+03           | n                                | 1.2E+03 | n                 | 1.6E+00                              | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Ammonium polyphosphate*                  | 6833-79-9  | —                                               | — | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | —                   | —                 | —                                      | —       | —                 | —                                   | —       | —                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   |   |
| Ammonium salts*                          | AMMONIUM   | —                                               | — | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | —                   | —                 | —                                      | —       | —                 | —                                   | —       | —                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   |   |
| Aniline                                  | 62-53-3    | 1.0E+02                                         | n | 3.7E-01           | c                                | 3.7E+01 | c                 | 1.3E+02                              | n | 2.5E+04           | n                                                | —                   | —                 | 5.9E+01                                | n       | 1.8E-01           | c                                   | 1.8E+01 | c                                               | 6.7E+01           | n                                | 1.6E+03 | n                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Anthracene                               | 120-12-7   | 1.8E+04                                         | n | 6.9E+03           | n >S                             | 6.9E+05 | n >S              | —                                    | — | —                 | —                                                | —                   | —                 | 1.8E+04                                | n       | 3.4E+03           | n >S                                | 3.4E+05 | n >S                                            | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Anthraquinone, 9,10-                     | 84-65-1    | 1.2E+02                                         | c | 1.1E+00           | c                                | 1.1E+02 | c >S              | —                                    | — | —                 | —                                                | —                   | —                 | 1.2E+02                                | c       | 5.7E-01           | c                                   | 5.7E+01 | c                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Antimony                                 | 7440-36-0  | 1.5E+01                                         | n | 5.4E+00           | m >S                             | 5.4E+02 | m >S              | —                                    | — | —                 | —                                                | —                   | —                 | 1.5E+01                                | n       | 2.7E+00           | m >S                                | 2.7E+02 | m >S                                            | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   | — |
| Aramite                                  | 140-57-8   | 1.1E+02                                         | c | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | —                   | —                 | 1.1E+02                                | c       | —                 | —                                   | —       | —                                               | —                 | —                                | —       | —                 | —                                    | — | —                 | —                                                | — | —                 | —                                      | — | —                 | —                                   |   |
| Arsenic                                  | 7440-38-2  | 2.4E+01                                         | n | 5.0E+00           | m >S                             | 5.0E+02 | m >S              | —                                    | — | —                 | —                                                | —                   | —                 | 2.4E+01                                | n       | 2.5E+00           | m >S                                | 2.5E+02 | m >S                                            | —                 | —                                | —       | —                 | —                                    | — |                   |                                                  |   |                   |                                        |   |                   |                                     |   |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                        | CAS        | 0.5 acre source area                                         |                   |                                                |                   |                                                    |                   |                                                               |                   |                                                     |                   | 30 acre source area                                          |                   |                                                |                   |                                                    |                   |                                                               |                   |                                                     |                   |                                                              |   |
|------------------------------------------------------------|------------|--------------------------------------------------------------|-------------------|------------------------------------------------|-------------------|----------------------------------------------------|-------------------|---------------------------------------------------------------|-------------------|-----------------------------------------------------|-------------------|--------------------------------------------------------------|-------------------|------------------------------------------------|-------------------|----------------------------------------------------|-------------------|---------------------------------------------------------------|-------------------|-----------------------------------------------------|-------------------|--------------------------------------------------------------|---|
|                                                            |            | <sup>1</sup><br>Soil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | <sup>1</sup><br>Soil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | <sup>1</sup><br>Soil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | <sup>1</sup><br>Soil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | <sup>1</sup><br>GW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | <sup>1</sup><br>Soil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | <sup>1</sup><br>Soil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | <sup>1</sup><br>Soil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | <sup>1</sup><br>Soil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | <sup>1</sup><br>GW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | <sup>1</sup><br>Soil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) |   |
| Benzenedicarbonitrile, 1,3-                                | 626-17-5   | 4.0E+02                                                      | n                 | 3.3E-01                                        | n                 | 3.3E+01                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 4.0E+02           | n                                              | 1.6E-01           | n                                                  | 1.6E+01           | n                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Benzenedicarboxylic acid, 1,2-disodecyl ester              | 26761-40-0 | 2.7E+03                                                      | n                 | 1.0E+06                                        | n >S              | 1.0E+06                                            | n >S              | 1.0E+06                                                       | n                 | 1.0E+06                                             | n >S              | —                                                            | 2.6E+03           | n                                              | 1.0E+06           | n >S                                               | 1.0E+06           | n >S                                                          | 1.0E+06           | n                                                   | 1.0E+06           | n >S                                                         | — |
| Benzenethiol                                               | 108-98-5   | 8.2E+01                                                      | n                 | 6.8E-02                                        | n                 | 6.8E+00                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 8.2E+01           | n                                              | 3.4E-02           | n                                                  | 3.4E+00           | n                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Benzidine                                                  | 92-87-5    | 1.5E-02                                                      | c                 | 1.1E-05                                        | c                 | 1.1E-03                                            | c                 | 6.3E-02                                                       | c                 | 1.4E+01                                             | c                 | —                                                            | 1.3E-02           | c                                              | 5.5E-06           | c                                                  | 5.5E-04           | c                                                             | 3.2E-02           | c                                                   | 1.2E+00           | c                                                            | — |
| Benzo-a-pyrene                                             | 50-32-8    | 4.1E+00                                                      | c                 | 7.6E+00                                        | m                 | 7.6E+02                                            | m >S              | 6.4E+01                                                       | n                 | 1.0E+06                                             | n >S              | —                                                            | 4.1E+00           | c                                              | 3.8E+00           | m                                                  | 3.8E+02           | m >S                                                          | 3.3E+01           | n                                                   | 7.2E+04           | n >S                                                         | — |
| Benzo-b-fluoranthene                                       | 205-99-2   | 4.2E+01                                                      | c                 | 4.4E+02                                        | c >S              | 4.4E+04                                            | c >S              | 9.0E+03                                                       | c                 | 1.0E+06                                             | c >S              | —                                                            | 4.1E+01           | c                                              | 2.2E+02           | c >S                                               | 2.2E+04           | c >S                                                          | 4.6E+03           | c                                                   | 1.0E+06           | c >S                                                         | — |
| Benzo-e-pyrene                                             | 192-97-2   | 1.8E+03                                                      | n                 | 1.1E+05                                        | n >S              | 1.0E+06                                            | n >S              | —                                                             | —                 | —                                                   | —                 | —                                                            | 1.8E+03           | n                                              | 5.7E+04           | n >S                                               | 1.0E+06           | n >S                                                          | —                 | —                                                   | —                 | —                                                            | — |
| Benzo-g,h,i-perylene                                       | 191-24-2   | 1.8E+03                                                      | n                 | 4.6E+04                                        | n >S              | 1.0E+06                                            | n >S              | —                                                             | —                 | —                                                   | —                 | —                                                            | 1.8E+03           | n                                              | 2.3E+04           | n >S                                               | 1.0E+06           | n >S                                                          | —                 | —                                                   | —                 | —                                                            | — |
| Benzoic acid                                               | 65-85-0    | 2.7E+05                                                      | n                 | 1.9E+02                                        | n                 | 1.9E+04                                            | n >S              | —                                                             | —                 | —                                                   | —                 | —                                                            | 2.7E+05           | n                                              | 9.5E+01           | n                                                  | 9.5E+03           | n >S                                                          | —                 | —                                                   | —                 | —                                                            | — |
| Benzo-j-fluoranthene                                       | 205-82-3   | 3.9E+01                                                      | c                 | 1.9E+02                                        | c >S              | 1.9E+04                                            | c >S              | 4.7E+03                                                       | c                 | 1.0E+06                                             | c >S              | —                                                            | 3.9E+01           | c                                              | 9.6E+01           | c >S                                               | 9.6E+03           | c >S                                                          | 2.4E+03           | c                                                   | 1.0E+06           | c >S                                                         | — |
| Benzo-k-fluoranthene                                       | 207-08-9   | 4.2E+02                                                      | c                 | 4.5E+03                                        | c >S              | 4.5E+05                                            | c >S              | 2.2E+05                                                       | c                 | 1.0E+06                                             | c >S              | —                                                            | 4.2E+02           | c                                              | 2.2E+03           | c >S                                               | 2.2E+05           | c >S                                                          | 1.1E+05           | c                                                   | 1.0E+06           | c >S                                                         | — |
| Benzophenone                                               | 119-61-9   | 4.5E+02                                                      | n                 | 1.7E+01                                        | n                 | 1.7E+03                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 4.5E+02           | n                                              | 8.5E+00           | n                                                  | 8.5E+02           | n                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Benzotrichloride                                           | 98-07-7    | 3.6E-01                                                      | c                 | 4.2E-03                                        | c                 | 4.2E-01                                            | c                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 3.6E-01           | c                                              | 2.1E-03           | c                                                  | 2.1E-01           | c                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Benzoyl peroxide                                           | 94-36-0    | 3.3E+03                                                      | n                 | 5.4E+01                                        | n                 | 5.4E+03                                            | n >S              | —                                                             | —                 | —                                                   | —                 | —                                                            | 3.3E+03           | n                                              | 2.7E+01           | n                                                  | 2.7E+03           | n >S                                                          | —                 | —                                                   | —                 | —                                                            | — |
| Benzyl alcohol                                             | 100-51-6   | 6.7E+03                                                      | n                 | 5.9E+00                                        | n                 | 5.9E+02                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 6.7E+03           | n                                              | 2.9E+00           | n                                                  | 2.9E+02           | n                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Benzyl chloride                                            | 100-44-7   | 2.6E+01                                                      | n                 | 5.0E-02                                        | c                 | 5.0E+00                                            | c                 | 3.1E+01                                                       | n                 | 9.3E+02                                             | n                 | —                                                            | 1.4E+01           | n                                              | 2.5E-02           | c                                                  | 2.5E+00           | c                                                             | 1.6E+01           | n                                                   | 6.0E+01           | n                                                            | — |
| Benzyl dichloride                                          | 98-87-3    | 2.8E+01                                                      | c                 | 6.3E-02                                        | c                 | 6.3E+00                                            | c                 | 5.5E+01                                                       | n                 | 2.3E+03                                             | n                 | —                                                            | 2.3E+01           | n                                              | 3.2E-02           | c                                                  | 3.2E+00           | c                                                             | 2.8E+01           | n                                                   | 1.5E+02           | n                                                            | — |
| Beryllium                                                  | 7440-41-7  | 3.6E+01                                                      | n                 | 1.8E+00                                        | m >S              | 1.8E+02                                            | m >S              | —                                                             | —                 | —                                                   | —                 | —                                                            | 3.5E+01           | n                                              | 9.2E-01           | m >S                                               | 9.2E+01           | m >S                                                          | —                 | —                                                   | —                 | —                                                            | — |
| Biphenyl, 1,1-                                             | 92-52-4    | 1.2E+04                                                      | n                 | 2.5E+03                                        | n >S              | 2.5E+05                                            | n >S              | —                                                             | —                 | —                                                   | —                 | —                                                            | 1.2E+04           | n                                              | 1.3E+03           | n >S                                               | 1.3E+05           | n >S                                                          | —                 | —                                                   | —                 | —                                                            | — |
| Biphenyl, 1,1', 2-phenoxy-                                 | 6738-04-1  | 3.2E+03                                                      | n                 | 7.5E+04                                        | n >S              | 1.0E+06                                            | n >S              | —                                                             | —                 | —                                                   | —                 | —                                                            | 3.2E+03           | n                                              | 3.7E+04           | n >S                                               | 1.0E+06           | n >S                                                          | —                 | —                                                   | —                 | —                                                            | — |
| Biquinoline, 2,2'-                                         | 119-91-5   | 1.8E+02                                                      | n                 | 2.7E+01                                        | n                 | 2.7E+03                                            | n >S              | —                                                             | —                 | —                                                   | —                 | —                                                            | 1.8E+02           | n                                              | 1.3E+01           | n                                                  | 1.3E+03           | n >S                                                          | —                 | —                                                   | —                 | —                                                            | — |
| Bis (2-chloroethoxy) methane                               | 111-91-1   | 3.1E+00                                                      | c                 | 1.2E-02                                        | c                 | 1.2E+00                                            | c                 | 1.1E+01                                                       | c                 | 1.1E+03                                             | c                 | —                                                            | 2.5E+00           | c                                              | 5.9E-03           | c                                                  | 5.9E-01           | c                                                             | 5.8E+00           | c                                                   | 7.4E+01           | c                                                            | — |
| Bis (2-chloroethyl) ether                                  | 111-44-4   | 2.2E+00                                                      | c                 | 2.1E-03                                        | c                 | 2.1E-01                                            | c                 | 3.6E+00                                                       | c                 | 2.4E+02                                             | c                 | —                                                            | 1.4E+00           | c                                              | 1.1E-03           | c                                                  | 1.1E-01           | c                                                             | 1.8E+00           | c                                                   | 1.5E+01           | c                                                            | — |
| Bis (2-chloro-1-methylethyl) ether                         | 108-60-1   | 5.1E+01                                                      | c                 | 1.9E-01                                        | c                 | 1.9E+01                                            | c                 | 2.1E+02                                                       | c                 | 1.3E+04                                             | c                 | —                                                            | 4.1E+01           | c                                              | 9.5E-02           | c                                                  | 9.5E+00           | c                                                             | 1.1E+02           | c                                                   | 8.2E+02           | c                                                            | — |
| Bis (2-chloromethyl) ether                                 | 542-88-1   | 4.8E-03                                                      | c                 | 8.2E-06                                        | c                 | 8.2E-04                                            | c                 | 5.8E-03                                                       | c                 | 1.7E-01                                             | c                 | —                                                            | 2.7E-03           | c                                              | 4.1E-06           | c                                                  | 4.1E-04           | c                                                             | 3.0E-03           | c                                                   | 1.1E-02           | c                                                            | — |
| Bis (2-ethyl-hexyl) phthalate                              | 117-81-7   | 4.3E+01                                                      | c                 | 1.6E+02                                        | m                 | 1.6E+04                                            | m >S              | —                                                             | —                 | —                                                   | —                 | —                                                            | 4.3E+01           | c                                              | 8.2E+01           | m                                                  | 8.2E+03           | m >S                                                          | —                 | —                                                   | —                 | —                                                            | — |
| Bismuth                                                    | 7440-69-9  | 3.7E+04                                                      | n                 | —                                              | —                 | —                                                  | —                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 3.7E+04           | n                                              | —                 | —                                                  | —                 | —                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Bisphenol A                                                | 80-05-7    | 3.3E+03                                                      | n                 | 2.9E+01                                        | n                 | 2.9E+03                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 3.3E+03           | n                                              | 1.5E+01           | n                                                  | 1.5E+03           | n                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Boron                                                      | 7440-42-8  | 1.6E+04                                                      | n                 | —                                              | —                 | —                                                  | —                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 1.6E+04           | n                                              | —                 | —                                                  | —                 | —                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Bromacil                                                   | 314-40-9   | 6.7E+03                                                      | n                 | 1.7E+01                                        | n                 | 1.7E+03                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 6.7E+03           | n                                              | 8.6E+00           | n                                                  | 8.6E+02           | n                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Bromo-2-chloroethane, 1-                                   | 107-04-0   | 3.3E+03                                                      | n                 | 3.5E+00                                        | n                 | 3.5E+02                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 3.3E+03           | n                                              | 1.7E+00           | n                                                  | 1.7E+02           | n                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Bromobenzene                                               | 108-86-1   | 3.9E+02                                                      | n                 | 2.3E+00                                        | n                 | 2.3E+02                                            | n                 | 9.7E+02                                                       | n                 | 2.7E+04                                             | n >S              | —                                                            | 2.8E+02           | n                                              | 1.2E+00           | n                                                  | 1.2E+02           | n                                                             | 5.0E+02           | n                                                   | 1.7E+03           | n                                                            | — |
| Bromodichloromethane <sup>8</sup>                          | 75-27-4    | 9.8E+01                                                      | c                 | 3.6E-01                                        | m                 | 3.6E+01                                            | m                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 9.8E+01           | c                                              | 1.8E-01           | m                                                  | 1.8E+01           | m                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Bromoform <sup>9</sup>                                     | 75-25-2    | 4.0E+02                                                      | c                 | 4.4E-01                                        | m                 | 4.4E+01                                            | m                 | 8.4E+02                                                       | c                 | 2.8E+04                                             | c >S              | —                                                            | 2.8E+02           | c                                              | 2.2E-01           | m                                                  | 2.2E+01           | m                                                             | 4.3E+02           | c                                                   | 1.8E+03           | c                                                            | — |
| Bromomethane                                               | 74-83-9    | 3.9E+01                                                      | n                 | 1.3E-01                                        | n                 | 1.3E+01                                            | n                 | 6.0E+01                                                       | n                 | 1.4E+02                                             | n                 | —                                                            | 2.4E+01           | n                                              | 6.5E-02           | n                                                  | 6.5E+00           | n                                                             | 3.1E+01           | n                                                   | 8.9E+00           | n                                                            | — |
| Bromophenyl phenylether, 4-                                | 101-55-3   | 2.8E-01                                                      | c                 | 3.5E-01                                        | c                 | 3.5E+01                                            | c                 | 9.8E+00                                                       | c                 | 9.2E+03                                             | c >S              | —                                                            | 2.7E-01           | c                                              | 1.8E-01           | c                                                  | 1.8E+01           | c                                                             | 5.0E+00           | c                                                   | 5.9E+02           | c                                                            | — |
| Butadiene, 1,3-                                            | 106-99-0   | 5.1E+02                                                      | n                 | —                                              | —                 | —                                                  | —                 | 5.1E+02                                                       | n                 | 5.0E+02                                             | n                 | —                                                            | 2.6E+02           | n                                              | —                 | —                                                  | —                 | —                                                             | 2.6E+02           | n                                                   | 3.2E+01           | n                                                            | — |
| Butadiene, 2-methyl-1,3- (isoprene)                        | 78-79-5    | 4.8E+03                                                      | n                 | 1.1E+01                                        | n                 | 1.1E+03                                            | n                 | 2.8E+05                                                       | n                 | 6.2E+05                                             | n >S              | —                                                            | 4.7E+03           | n                                              | 5.5E+00           | n                                                  | 5.5E+02           | n                                                             | 1.4E+05           | n                                                   | 4.0E+04           | n >S                                                         | — |
| Butanal (butyraldehyde)                                    | 123-72-8   | 1.2E+03                                                      | n                 | 3.2E+00                                        | n                 | 3.2E+02                                            | n                 | 1.5E+03                                                       | n                 | 4.3E+04                                             | n                 | —                                                            | 6.8E+02           | n                                              | 1.6E+00           | n                                                  | 1.6E+02           | n                                                             | 7.9E+02           | n                                                   | 2.8E+03           | n                                                            | — |
| Butane, 2,3-dimethyl-                                      | 79-29-8    | 4.8E+03                                                      | n                 | 2.8E+02                                        | n                 | 2.8E+04                                            | n >S              | 2.8E+05                                                       | n                 | 4.6E+05                                             | n >S              | —                                                            | 4.7E+03           | n                                              | 1.4E+02           | n                                                  | 1.4E+04           | n >S                                                          | 1.4E+05           | n                                                   | 3.0E+04           | n >S                                                         | — |
| Butanoic acid (butyric acid)                               | 107-92-6   | 1.3E+02                                                      | n                 | 2.3E+01                                        | n                 | 2.3E+03                                            | n                 | 1.3E+02                                                       | n                 | 3.6E+04                                             | n                 | —                                                            | 6.6E+01           | n                                              | 1.2E+01           | n                                                  | 1.2E+03           | n                                                             | 6.6E+01           | n                                                   | 2.4E+03           | n                                                            | — |
| Butanol, 2-                                                | 78-92-2    | 1.5E+05                                                      | n                 | 1.0E+02                                        | n                 | 1.0E+04                                            | n                 | 1.0E+06                                                       | n                 | 1.0E+06                                             | n >S              | —                                                            | 1.3E+05           | n                                              | 5.2E+01           | n                                                  | 5.2E+03           | n                                                             | 7.2E+05           | n                                                   | 1.0E+06           | n >S                                                         | — |
| Butanol, 2-methyl-1-                                       | 137-32-6   | 8.2E+02                                                      | n                 | 6.0E-01                                        | n                 | 6.0E+01                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 8.2E+02           | n                                              | 3.0E-01           | n                                                  | 3.0E+01           | n                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Butanol, 2-methyl-2-                                       | 75-85-4    | 8.2E+02                                                      | n                 | 5.9E-01                                        | n                 | 5.9E+01                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 8.2E+02           | n                                              | 2.9E-01           | n                                                  | 2.9E+01           | n                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Butanol, n-                                                | 71-36-3    | 8.2E+03                                                      | n                 | 5.3E+00                                        | n                 | 5.3E+02                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            | 8.2E+03           | n                                              | 2.6E+00           | n                                                  | 2.6E+02           | n                                                             | —                 | —                                                   | —                 | —                                                            | — |
| Butene, 1-                                                 | 106-98-9   | 4.6E+03                                                      | n                 | 4.4E+01                                        | n                 | 4.4E+03                                            | n                 | 8.1E+04                                                       | n                 | 8.8E+04                                             | n >S              | —                                                            | 4.4E+03           | n                                              | 2.2E+01           | n                                                  | 2.2E+03           | n                                                             | 4.2E+04           | n                                                   | 5.7E+03           | n >S                                                         | — |
| Butene, cis-2-                                             | 590-18-1   | 4.1E+03                                                      | n                 | 3.2E+01                                        | n                 | 3.2E+03                                            | n                 | 2.5E+04                                                       | n                 | 2.8E+04                                             | n >S              | —                                                            | 3.5E+03           | n                                              | 1.6E+01           | n                                                  | 1.6E+03           | n                                                             | 1.3E+04           | n                                                   | 1.8E+03           | n                                                            | — |
| Butene, trans-2-                                           | 624-64-6   | 4.1E+03                                                      | n                 | 3.2E+01                                        | n                 | 3.2E+03                                            | n                 | 2.5E+04                                                       | n                 | 2.8E+04                                             | n >S              | —                                                            | 3.5E+03           | n                                              | 1.6E+01           | n                                                  | 1.6E+03           | n                                                             | 1.3E+04           | n                                                   | 1.8E+03           | n                                                            | — |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2   | 6.5E+03                                                      | n                 | 5.9E+00                                        | n                 | 5.9E+02                                            | n                 | 2.9E+05                                                       | n                 | 1.0E+06                                             | n >S              | —                                                            | 6.4E+03           | n                                              | 2.9E+00           | n                                                  | 2.9E+02           | n                                                             | 1.5E+05           | n                                                   | 1.0E+06           | n >S                                                         | — |
| Butyl acetate                                              | 123-86-4   | 1.0E+04                                                      | n                 | 1.0E+01                                        | n                 | 1.0E+03                                            | n                 | 8.4E+04                                                       | n                 | 1.0E+06                                             | n >S              | —                                                            | 9.1E+03           | n                                              | 5.1E+00           | n                                                  | 5.1E+02           | n                                                             | 4.3E+04           | n                                                   | 1.4E+05           | n >S                                                         | — |
| Butyl acrylate                                             | 141-32-2   | 7.4E+02                                                      | n                 | 1.0E+00                                        | n                 | 1.0E+02                                            | n                 | —                                                             | —                 | —                                                   | —                 | —                                                            |                   |                                                |                   |                                                    |                   |                                                               |                   |                                                     |                   |                                                              |   |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | 0.5 acre source area                                              |   |                                                    |      |                                                        |      |                                                                    |   |                                                          |      | 30 acre source area                 |   |                                                                   |   |                                                    |      |                                                        |      |                                                                    |   |                                                          |      |                                     |   |
|-------------------------------------------------------|------------|-------------------------------------------------------------------|---|----------------------------------------------------|------|--------------------------------------------------------|------|--------------------------------------------------------------------|---|----------------------------------------------------------|------|-------------------------------------|---|-------------------------------------------------------------------|---|----------------------------------------------------|------|--------------------------------------------------------|------|--------------------------------------------------------------------|---|----------------------------------------------------------|------|-------------------------------------|---|
|                                                       |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) note <sup>3</sup> |   | GWSoil <sub>Ing</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil <sub>Class 3</sub><br>(mg/kg) note <sup>3</sup> |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) note <sup>3</sup> |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil for Secondary MCL<br>(mg/kg) |   | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) note <sup>3</sup> |   | GWSoil <sub>Ing</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil <sub>Class 3</sub><br>(mg/kg) note <sup>3</sup> |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) note <sup>3</sup> |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil for Secondary MCL<br>(mg/kg) |   |
| Butyl benzyl phthalate                                | 85-68-7    | 1.6E+03                                                           | c | 2.6E+02                                            | c    | 2.6E+04                                                | c >S | —                                                                  | — | —                                                        | —    | —                                   | — | 1.6E+03                                                           | c | 1.3E+02                                            | c    | 1.3E+04                                                | c >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Butyl ether, n- (dibutyl ether)                       | 142-96-1   | 8.2E+03                                                           | n | 4.3E+01                                            | n    | 4.3E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 8.2E+03                                                           | n | 2.2E+01                                            | n    | 2.2E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Butyl methacrylate                                    | 97-88-1    | 3.4E+03                                                           | n | 2.6E+01                                            | n    | 2.6E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 3.4E+03                                                           | n | 1.3E+01                                            | n    | 1.3E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Butylate                                              | 2008-41-5  | 3.3E+03                                                           | n | 8.5E+00                                            | n    | 8.5E+02                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — | 3.3E+03                                                           | n | 4.3E+00                                            | n    | 4.3E+02                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Butylbenzene, n-                                      | 104-51-8   | 3.3E+03                                                           | n | 1.5E+02                                            | n    | 1.5E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — | 3.3E+03                                                           | n | 7.6E+01                                            | n    | 7.6E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Butylbenzene, sec-                                    | 135-98-8   | 3.3E+03                                                           | n | 8.5E+01                                            | n    | 8.5E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — | 3.3E+03                                                           | n | 4.2E+01                                            | n    | 4.2E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Butylbenzene, tert-                                   | 98-06-6    | 3.3E+03                                                           | n | 1.0E+02                                            | n    | 1.0E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — | 3.3E+03                                                           | n | 5.0E+01                                            | n    | 5.0E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Cacodylic acid                                        | 75-60-5    | 2.0E+02                                                           | n | 1.5E-01                                            | n    | 1.5E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 2.0E+02                                                           | n | 7.4E-02                                            | n    | 7.4E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Cadmium                                               | 7440-43-9  | 5.2E+01                                                           | n | 1.5E+00                                            | m >S | 1.5E+02                                                | m >S | —                                                                  | — | —                                                        | —    | —                                   | — | 5.1E+01                                                           | n | 7.5E-01                                            | m >S | 7.5E+01                                                | m >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Calcium*                                              | 7440-70-2  | —                                                                 | — | —                                                  | —    | —                                                      | —    | —                                                                  | — | —                                                        | —    | —                                   | — | —                                                                 | — | —                                                  | —    | —                                                      | —    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Caprolactam                                           | 105-60-2   | 3.3E+04                                                           | n | 4.7E+01                                            | n    | 4.7E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 3.3E+04                                                           | n | 2.3E+01                                            | n    | 2.3E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Captan                                                | 133-06-2   | 1.3E+03                                                           | c | 6.7E+01                                            | c    | 6.7E+03                                                | c >S | —                                                                  | — | —                                                        | —    | —                                   | — | 1.3E+03                                                           | c | 3.4E+01                                            | c    | 3.4E+03                                                | c >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Carbaryl                                              | 63-25-2    | 6.7E+03                                                           | n | 2.8E+01                                            | n    | 2.8E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — | 6.7E+03                                                           | n | 1.4E+01                                            | n    | 1.4E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Carbazole                                             | 86-74-8    | 2.3E+02                                                           | c | 4.6E+00                                            | c    | 4.6E+02                                                | c >S | —                                                                  | — | —                                                        | —    | —                                   | — | 2.3E+02                                                           | c | 2.3E+00                                            | c    | 2.3E+02                                                | c >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Carbofuran                                            | 1563-66-2  | 3.3E+02                                                           | n | 1.2E-01                                            | m    | 1.2E+01                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | — | 3.3E+02                                                           | n | 6.2E-02                                            | m    | 6.2E+00                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Carbon disulfide                                      | 75-15-0    | 4.6E+03                                                           | n | 1.4E+01                                            | n    | 1.4E+03                                                | n    | 1.1E+04                                                            | n | 2.7E+04                                                  | n >S | —                                   | — | 3.3E+03                                                           | n | 6.8E+00                                            | n    | 6.8E+02                                                | n    | 5.5E+03                                                            | n | 1.7E+03                                                  | n    | —                                   | — |
| Carbon tetrachloride                                  | 56-23-5    | 4.6E+01                                                           | c | 6.2E-02                                            | m    | 6.2E+00                                                | m    | 9.9E+01                                                            | c | 4.1E+02                                                  | c    | —                                   | — | 3.2E+01                                                           | c | 3.1E-02                                            | m    | 3.1E+00                                                | m    | 5.1E+01                                                            | c | 2.6E+01                                                  | c    | —                                   | — |
| Carbophenothion                                       | 786-19-6   | 8.2E+02                                                           | n | 1.5E+03                                            | n    | 1.5E+05                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — | 8.2E+02                                                           | n | 7.4E+02                                            | n    | 7.4E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Carbosulfan                                           | 55285-14-8 | 4.3E+02                                                           | n | 2.5E+02                                            | n    | 2.5E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — | 4.3E+02                                                           | n | 1.3E+02                                            | n    | 1.3E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Carboxin                                              | 5234-68-4  | 6.7E+03                                                           | n | 8.7E+01                                            | n    | 8.7E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — | 6.7E+03                                                           | n | 4.4E+01                                            | n    | 4.4E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chloral                                               | 75-87-6    | 8.2E+03                                                           | n | 5.3E+00                                            | n    | 5.3E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 8.2E+03                                                           | n | 2.7E+00                                            | n    | 2.7E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chloral hydrate (1,1-ethanediol, 2,2-trichloro-)      | 302-17-0   | 6.7E+03                                                           | n | 5.2E+00                                            | n    | 5.2E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 6.7E+03                                                           | n | 2.6E+00                                            | n    | 2.6E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid) | 133-90-4   | 1.0E+03                                                           | n | 3.8E+00                                            | n    | 3.8E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 1.0E+03                                                           | n | 1.9E+00                                            | n    | 1.9E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chlordane (technical)                                 | 12789-03-6 | 6.0E+00                                                           | c | 9.6E+00                                            | m    | 9.6E+02                                                | m >S | 1.2E+03                                                            | c | 1.0E+06                                                  | c >S | —                                   | — | 5.9E+00                                                           | c | 4.8E+00                                            | m    | 4.8E+02                                                | m >S | 6.4E+02                                                            | c | 2.4E+05                                                  | c >S | —                                   | — |
| Chlordane, cis- (alpha chlordane)                     | 5103-71-9  | 1.3E+01                                                           | c | 7.4E+02                                            | c    | 7.4E+04                                                | c >S | 4.1E+03                                                            | c | 1.0E+06                                                  | c >S | —                                   | — | 1.3E+01                                                           | c | 3.7E+02                                            | c    | 3.7E+04                                                | c >S | 2.1E+03                                                            | c | 1.0E+06                                                  | c >S | —                                   | — |
| Chlordane, trans- (gamma chlordane)                   | 5103-74-2  | 7.4E+00                                                           | c | 4.1E+01                                            | c    | 4.1E+03                                                | c >S | 9.7E+02                                                            | c | 1.0E+06                                                  | c >S | —                                   | — | 7.3E+00                                                           | c | 2.1E+01                                            | c    | 2.1E+03                                                | c >S | 5.0E+02                                                            | c | 1.6E+05                                                  | c >S | —                                   | — |
| Chlorfenvinphos                                       | 470-90-6   | 1.4E+01                                                           | n | 9.1E-01                                            | n    | 9.1E+01                                                | n    | 3.1E+01                                                            | n | —                                                        | —    | —                                   | — | 9.6E+00                                                           | n | 4.6E-01                                            | n    | 4.6E+01                                                | n    | 1.6E+01                                                            | n | —                                                        | —    | —                                   | — |
| Chloride*                                             | 16887-00-6 | —                                                                 | — | —                                                  | —    | —                                                      | —    | —                                                                  | — | —                                                        | —    | —                                   | — | —                                                                 | — | —                                                  | —    | —                                                      | —    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chlorine                                              | 7782-50-5  | 1.3E+02                                                           | n | —                                                  | —    | —                                                      | —    | 1.3E+02                                                            | n | —                                                        | —    | —                                   | — | 6.8E+01                                                           | n | —                                                  | —    | —                                                      | —    | 6.9E+01                                                            | n | —                                                        | —    | —                                   | — |
| Chloro-1,3-butadiene, 2-                              | 126-99-8   | 1.2E+00                                                           | c | —                                                  | —    | —                                                      | —    | 1.2E+00                                                            | c | 2.6E+00                                                  | c    | —                                   | — | 6.1E-01                                                           | c | —                                                  | —    | —                                                      | —    | 6.1E-01                                                            | c | 1.7E-01                                                  | c    | —                                   | — |
| Chloro-2-propanol, 1-                                 | 127-00-4   | 1.6E+03                                                           | n | 1.1E+00                                            | n    | 1.1E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 1.6E+03                                                           | n | 5.3E-01                                            | n    | 5.3E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chloro-3-methylphenol, 4-                             | 59-50-7    | 3.3E+02                                                           | n | 4.5E+00                                            | n    | 4.5E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 3.3E+02                                                           | n | 2.3E+00                                            | n    | 2.3E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chloroaniline, p-                                     | 106-47-8   | 2.3E+01                                                           | c | 2.1E-02                                            | c    | 2.1E+00                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | — | 2.3E+01                                                           | c | 1.0E-02                                            | c    | 1.0E+00                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chlorobenzene                                         | 108-90-7   | 5.2E+02                                                           | n | 1.1E+00                                            | m    | 1.1E+02                                                | m    | 7.7E+02                                                            | n | 1.3E+04                                                  | n >S | —                                   | — | 3.2E+02                                                           | n | 5.5E-01                                            | m    | 5.5E+01                                                | m    | 3.9E+02                                                            | n | 8.2E+02                                                  | n    | —                                   | — |
| Chlorobenzilate                                       | 510-15-6   | 1.7E+01                                                           | c | 1.1E-01                                            | c    | 1.1E+01                                                | c    | 3.5E+02                                                            | c | 2.4E+05                                                  | c >S | —                                   | — | 1.6E+01                                                           | c | 5.7E-02                                            | c    | 5.7E+00                                                | c    | 1.8E+02                                                            | c | 1.5E+04                                                  | c >S | —                                   | — |
| Chlorobromomethane (bromochloromethane)               | 74-97-5    | 3.3E+03                                                           | n | 3.0E+00                                            | n    | 3.0E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 3.3E+03                                                           | n | 1.5E+00                                            | n    | 1.5E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chlorodifluoromethane                                 | 75-45-6    | 7.7E+05                                                           | n | —                                                  | —    | —                                                      | —    | 7.7E+05                                                            | n | 8.9E+05                                                  | n >S | —                                   | — | 3.9E+05                                                           | n | —                                                  | —    | —                                                      | —    | 3.9E+05                                                            | n | 5.8E+04                                                  | n >S | —                                   | — |
| Chloroethane (ethyl chloride)                         | 75-00-3    | 2.7E+04                                                           | n | 3.1E+01                                            | n    | 3.1E+03                                                | n    | 1.5E+05                                                            | n | 3.7E+05                                                  | n >S | —                                   | — | 2.3E+04                                                           | n | 1.5E+01                                            | n    | 1.5E+03                                                | n    | 7.9E+04                                                            | n | 2.4E+04                                                  | n    | —                                   | — |
| Chloroethanol, 2-                                     | 107-07-3   | 1.6E+03                                                           | n | 9.7E-01                                            | n    | 9.7E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 1.6E+03                                                           | n | 4.9E-01                                            | n    | 4.9E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether)     | 110-75-8   | 4.5E+00                                                           | n | 2.9E-03                                            | c    | 2.9E-01                                                | c    | 4.6E+00                                                            | n | 6.8E+01                                                  | n    | —                                   | — | 2.3E+00                                                           | n | 1.4E-03                                            | c    | 1.4E-01                                                | c    | 2.4E+00                                                            | n | 4.4E+00                                                  | n    | —                                   | — |
| Chloroform <sup>8</sup>                               | 67-66-3    | 1.6E+01                                                           | c | 3.3E-01                                            | m    | 3.3E+01                                                | m    | 1.6E+01                                                            | c | 8.3E+01                                                  | c    | —                                   | — | 8.0E+00                                                           | c | 1.7E-01                                            | m    | 1.7E+01                                                | m    | 8.0E+00                                                            | c | 5.4E+00                                                  | c    | —                                   | — |
| Chlorohexane, 1-                                      | 544-10-5   | 2.7E+03                                                           | n | 3.9E+01                                            | n    | 3.9E+03                                                | n >S | 1.5E+04                                                            | n | 2.9E+05                                                  | n >S | —                                   | — | 2.3E+03                                                           | n | 2.0E+01                                            | n    | 2.0E+03                                                | n >S | 7.9E+03                                                            | n | 1.9E+04                                                  | n >S | —                                   | — |
| Chloromethane (methyl chloride)                       | 74-87-3    | 1.4E+02                                                           | c | 4.1E-01                                            | c    | 4.1E+01                                                | c    | 2.0E+02                                                            | c | 2.1E+02                                                  | c    | —                                   | — | 8.4E+01                                                           | c | 2.0E-01                                            | c    | 2.0E+01                                                | c    | 1.0E+02                                                            | c | 1.4E+01                                                  | c    | —                                   | — |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-)     | 90-13-1    | 4.6E+03                                                           | n | 7.4E+02                                            | n    | 7.4E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — | 4.6E+03                                                           | n | 3.7E+02                                            | n    | 3.7E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chloronaphthalene, 2- (chloronaphthalene, beta)       | 91-58-7    | 5.0E+03                                                           | n | 6.7E+02                                            | n    | 6.7E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — | 5.0E+03                                                           | n | 3.3E+02                                            | n    | 3.3E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)      | 100-00-5   | 3.2E+01                                                           | n | 1.5E-01                                            | n    | 1.5E+01                                                | n    | 6.3E+01                                                            | n | 4.8E+03                                                  | n >S | —                                   | — | 2.2E+01                                                           | n | 7.6E-02                                            | n    | 7.6E+00                                                | n    | 3.2E+01                                                            | n | 3.1E+02                                                  | n    | —                                   | — |
| Chlorophenol, 2-                                      | 95-57-8    | 4.1E+02                                                           | n | 1.6E+00                                            | n    | 1.6E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — | 4.1E+02                                                           | n | 8.2E-01                                            | n    | 8.2E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Chlorophenol, 3-                                      | 108-43-0   | 3.3E+02                                                           | n | 7.8E-01                                            | n    | 7.8E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |                                                                   |   |                                                    |      |                                                        |      |                                                                    |   |                                                          |      |                                     |   |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | 0.5 acre source area                                          |                   |                                              |                   |                                                  |                   |                                                              |                   |                                                    |                   | 30 acre source area                                   |                                                               |                   |                                              |                   |                                                  |                   |                                                              |                   |                                                    |                   |                                                       |
|----------------------------------------------------|------------|---------------------------------------------------------------|-------------------|----------------------------------------------|-------------------|--------------------------------------------------|-------------------|--------------------------------------------------------------|-------------------|----------------------------------------------------|-------------------|-------------------------------------------------------|---------------------------------------------------------------|-------------------|----------------------------------------------|-------------------|--------------------------------------------------|-------------------|--------------------------------------------------------------|-------------------|----------------------------------------------------|-------------------|-------------------------------------------------------|
|                                                    |            | <sup>Total</sup> Soil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | <sup>GW</sup> Soil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | <sup>GW</sup> Soil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | <sup>Air</sup> Soil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | <sup>Air</sup> GW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | <sup>GW</sup> soil for<br>Secondary<br>MCL<br>(mg/kg) | <sup>Total</sup> Soil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | <sup>GW</sup> Soil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | <sup>GW</sup> Soil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | <sup>Air</sup> Soil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | <sup>Air</sup> GW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | <sup>GW</sup> soil for<br>Secondary<br>MCL<br>(mg/kg) |
| Chlorotoluene, o- (2-chlorotoluene)                | 95-49-8    | 1.2E+03                                                       | n                 | 9.1E+00                                      | n                 | 9.1E+02                                          | n                 | 1.3E+04                                                      | n                 | 4.4E+05                                            | n >S              | —                                                     | 1.1E+03                                                       | n                 | 4.5E+00                                      | n                 | 4.5E+02                                          | n                 | 6.8E+03                                                      | n                 | 2.8E+04                                            | n >S              | —                                                     |
| Chlorotoluene, p- (4-chlorotoluene)                | 106-43-4   | 1.6E+03                                                       | n                 | 1.1E+01                                      | n                 | 1.1E+03                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 1.6E+03                                                       | n                 | 5.4E+00                                      | n                 | 5.4E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Chlorpyrifos                                       | 2921-88-2  | 1.3E+02                                                       | n                 | 1.5E+01                                      | n                 | 1.5E+03                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 1.3E+02                                                       | n                 | 7.4E+00                                      | n                 | 7.4E+02                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Chromium (III)                                     | 16065-83-1 | 3.3E+04                                                       | n                 | 2.4E+03                                      | m >S              | 2.4E+05                                          | m >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 2.7E+04                                                       | n                 | 1.2E+03                                      | m >S              | 1.2E+05                                          | m >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Chromium (total)                                   | 7440-47-3  | 3.3E+04                                                       | n                 | 2.4E+03                                      | m >S              | 2.4E+05                                          | m >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 2.7E+04                                                       | n                 | 1.2E+03                                      | m >S              | 1.2E+05                                          | m >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Chromium (VI)                                      | 18540-29-9 | 1.2E+02                                                       | n                 | 2.8E+01                                      | m >S              | 2.8E+03                                          | m >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 1.2E+02                                                       | n                 | 1.4E+01                                      | m >S              | 1.4E+03                                          | m >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Chrysene                                           | 218-01-9   | 4.1E+03                                                       | c                 | 1.1E+04                                      | c >S              | 1.0E+06                                          | c >S              | 8.7E+05                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     | 4.1E+03                                                       | c                 | 5.6E+03                                      | c >S              | 5.6E+05                                          | c >S              | 4.5E+05                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     |
| Cobalt                                             | 7440-48-4  | 6.8E+02                                                       | n                 | 2.2E+02                                      | n >S              | 2.2E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 6.8E+02                                                       | n                 | 1.1E+02                                      | n >S              | 1.1E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Copolymer acrylamide                               | 69418-26-4 | 1.3E+01                                                       | n                 | 9.4E-03                                      | n                 | 9.4E-01                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 1.3E+01                                                       | n                 | 4.7E-03                                      | n                 | 4.7E-01                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Copper                                             | 7440-50-8  | 1.3E+03                                                       | n                 | 1.0E+03                                      | e >S              | 1.0E+05                                          | e >S              | —                                                            | —                 | —                                                  | —                 | 8.0E+02                                               | 1.3E+03                                                       | n                 | 5.2E+02                                      | e >S              | 5.2E+04                                          | e >S              | —                                                            | —                 | —                                                  | —                 | 4.0E+02                                               |
| Coronene                                           | 191-07-1   | 1.3E+02                                                       | n                 | 5.6E+04                                      | n >S              | 1.0E+06                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 1.3E+02                                                       | n                 | 2.8E+04                                      | n >S              | 1.0E+06                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Coumaphos                                          | 56-72-4    | 4.3E+02                                                       | n                 | 1.1E+02                                      | n                 | 1.1E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 4.3E+02                                                       | n                 | 5.5E+01                                      | n                 | 5.5E+03                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cresol                                             | 1319-77-3  | 3.3E+03                                                       | n                 | 6.6E+00                                      | n                 | 6.6E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 3.3E+03                                                       | n                 | 3.3E+00                                      | n                 | 3.3E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cresol, m- (3-methylphenol)                        | 108-39-4   | 3.3E+03                                                       | n                 | 6.6E+00                                      | n                 | 6.6E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 3.3E+03                                                       | n                 | 3.3E+00                                      | n                 | 3.3E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cresol, o- (2-methylphenol)                        | 95-48-7    | 3.3E+03                                                       | n                 | 7.1E+00                                      | n                 | 7.1E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 3.3E+03                                                       | n                 | 3.6E+00                                      | n                 | 3.6E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cresol, p- (4-methylphenol)                        | 106-44-5   | 3.3E+02                                                       | n                 | 6.3E-01                                      | n                 | 6.3E+01                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 3.3E+02                                                       | n                 | 3.2E-01                                      | n                 | 3.2E+01                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Crotonaldehyde                                     | 123-73-9   | 3.2E+00                                                       | c                 | 9.5E-04                                      | c                 | 9.5E-02                                          | c                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 3.2E+00                                                       | c                 | 4.8E-04                                      | c                 | 4.8E-02                                          | c                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cumene (isopropylbenzene)                          | 98-82-8    | 4.3E+03                                                       | n                 | 3.5E+02                                      | n                 | 3.5E+04                                          | n >S              | 9.2E+03                                                      | n                 | 6.2E+05                                            | n >S              | —                                                     | 3.0E+03                                                       | n                 | 1.7E+02                                      | n                 | 1.7E+04                                          | n >S              | 4.8E+03                                                      | n                 | 4.0E+04                                            | n >S              | —                                                     |
| Cyanazine                                          | 21725-46-2 | 5.6E+00                                                       | c                 | 4.2E-03                                      | c                 | 4.2E-01                                          | c                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 5.6E+00                                                       | c                 | 2.1E-03                                      | c                 | 2.1E-01                                          | c                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cyanide                                            | 57-12-5    | 4.5E+01                                                       | n                 | 4.0E+01                                      | m                 | 4.0E+03                                          | m                 | 7.2E+02                                                      | n                 | —                                                  | —                 | —                                                     | 4.3E+01                                                       | n                 | 2.0E+01                                      | m                 | 2.0E+03                                          | m                 | 3.7E+02                                                      | n                 | —                                                  | —                 | —                                                     |
| Cyanogen                                           | 460-19-5   | 1.1E+01                                                       | n                 | 6.1E-02                                      | n                 | 6.1E+00                                          | n                 | 1.2E+01                                                      | n                 | 1.8E+01                                            | n                 | —                                                     | 5.9E+00                                                       | n                 | 3.0E-02                                      | n                 | 3.0E+00                                          | n                 | 6.3E+00                                                      | n                 | 1.2E+00                                            | n                 | —                                                     |
| Cycloate                                           | 1134-23-2  | 3.7E+03                                                       | n                 | 1.5E+02                                      | n                 | 1.5E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 3.7E+03                                                       | n                 | 7.6E+01                                      | n                 | 7.6E+03                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cyclohexane                                        | 110-82-7   | 7.5E+04                                                       | n                 | 5.9E+03                                      | n >S              | 5.9E+05                                          | n >S              | 9.2E+04                                                      | n                 | 2.9E+05                                            | n >S              | —                                                     | 4.2E+04                                                       | n                 | 2.9E+03                                      | n >S              | 2.9E+05                                          | n >S              | 4.7E+04                                                      | n                 | 1.8E+04                                            | n >S              | —                                                     |
| Cyclohexanol                                       | 108-93-0   | 3.3E+05                                                       | n                 | 2.9E+02                                      | n >S              | 2.9E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 3.3E+05                                                       | n                 | 1.5E+02                                      | n >S              | 1.5E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cyclohexanone                                      | 108-94-1   | 3.2E+04                                                       | n                 | 2.6E+02                                      | n                 | 2.6E+04                                          | n                 | 3.5E+04                                                      | n                 | 1.0E+06                                            | n >S              | —                                                     | 1.7E+04                                                       | n                 | 1.3E+02                                      | n                 | 1.3E+04                                          | n                 | 1.8E+04                                                      | n                 | 1.9E+05                                            | n >S              | —                                                     |
| Cyclohexene, 1-methanol-3-                         | 1679-51-2  | 1.3E+03                                                       | n                 | 3.8E+00                                      | n                 | 3.8E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 1.3E+03                                                       | n                 | 1.9E+00                                      | n                 | 1.9E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cyclohexene, 4-vinyl-1-                            | 100-40-3   | 1.3E+03                                                       | n                 | 3.1E+01                                      | n                 | 3.1E+03                                          | n >S              | 5.1E+03                                                      | n                 | 6.2E+04                                            | n >S              | —                                                     | 1.1E+03                                                       | n                 | 1.5E+01                                      | n                 | 1.5E+03                                          | n >S              | 2.6E+03                                                      | n                 | 4.0E+03                                            | n >S              | —                                                     |
| Cyclopentane                                       | 287-92-3   | 4.8E+03                                                       | n                 | 2.8E+01                                      | n                 | 2.8E+03                                          | n                 | 3.7E+05                                                      | n                 | 7.0E+05                                            | n >S              | —                                                     | 4.8E+03                                                       | n                 | 1.4E+01                                      | n                 | 1.4E+03                                          | n                 | 1.9E+05                                                      | n                 | 4.6E+04                                            | n >S              | —                                                     |
| Cyclopentane, methyl-                              | 96-37-7    | 5.3E+03                                                       | n                 | 1.4E+02                                      | n                 | 1.4E+04                                          | n >S              | 1.5E+04                                                      | n                 | 3.8E+04                                            | n >S              | —                                                     | 4.0E+03                                                       | n                 | 6.8E+01                                      | n                 | 6.8E+03                                          | n >S              | 7.9E+03                                                      | n                 | 2.5E+03                                            | n >S              | —                                                     |
| Cyclopentene                                       | 142-29-0   | 4.1E+05                                                       | n                 | 1.1E+03                                      | n                 | 1.1E+05                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 4.1E+05                                                       | n                 | 5.3E+02                                      | n                 | 5.3E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cyclotetramethylenetetranitramine (HMX)            | 2691-41-0  | 1.6E+03                                                       | n                 | 2.3E+00                                      | n                 | 2.3E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 1.6E+03                                                       | n                 | 1.2E+00                                      | n                 | 1.2E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cyclotrimethylenetrinitramine (RDX)                | 121-82-4   | 5.9E+01                                                       | c                 | 5.1E-02                                      | c                 | 5.1E+00                                          | c                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 5.9E+01                                                       | c                 | 2.5E-02                                      | c                 | 2.5E+00                                          | c                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cymene (isopropyltoluene)                          | 99-87-6    | 8.2E+03                                                       | n                 | 2.3E+02                                      | n                 | 2.3E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 8.2E+03                                                       | n                 | 1.2E+02                                      | n                 | 1.2E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Cymoxanil                                          | 57966-95-7 | 8.7E+02                                                       | n                 | 6.1E-01                                      | n                 | 6.1E+01                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 8.7E+02                                                       | n                 | 3.0E-01                                      | n                 | 3.0E+01                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Dacthal (DCPA)                                     | 1861-32-1  | 6.2E+02                                                       | n                 | 4.5E+02                                      | n >S              | 4.5E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 6.2E+02                                                       | n                 | 2.3E+02                                      | n >S              | 2.3E+04                                          | n >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)  | 75-99-0    | 2.0E+03                                                       | n                 | 5.8E-01                                      | m                 | 5.8E+01                                          | m                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 2.0E+03                                                       | n                 | 2.9E-01                                      | m                 | 2.9E+01                                          | m                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| DDD                                                | 72-54-8    | 1.4E+01                                                       | c                 | 1.3E+01                                      | c                 | 1.3E+03                                          | c >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 1.4E+01                                                       | c                 | 6.5E+00                                      | c                 | 6.5E+02                                          | c >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| DDE                                                | 72-55-9    | 1.0E+01                                                       | c                 | 1.2E+01                                      | c                 | 1.2E+03                                          | c >S              | —                                                            | —                 | —                                                  | —                 | —                                                     | 1.0E+01                                                       | c                 | 5.9E+00                                      | c                 | 5.9E+02                                          | c >S              | —                                                            | —                 | —                                                  | —                 | —                                                     |
| DDT                                                | 50-29-3    | 5.4E+00                                                       | c                 | 1.5E+01                                      | c                 | 1.5E+03                                          | c >S              | 1.2E+03                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     | 5.4E+00                                                       | c                 | 7.4E+00                                      | c                 | 7.4E+02                                          | c >S              | 6.2E+02                                                      | c                 | 2.2E+05                                            | c >S              | —                                                     |
| Demeton                                            | 8065-48-3  | 2.7E+00                                                       | n                 | 1.2E-02                                      | n                 | 1.2E+00                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 2.7E+00                                                       | n                 | 6.2E-03                                      | n                 | 6.2E-01                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Desethylatrazine                                   | 6190-65-4  | 2.3E+03                                                       | n                 | 4.0E+00                                      | n                 | 4.0E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 2.3E+03                                                       | n                 | 2.0E+00                                      | n                 | 2.0E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone) | 123-42-2   | 2.7E+03                                                       | n                 | 1.9E+00                                      | n                 | 1.9E+02                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 2.7E+03                                                       | n                 | 9.7E-01                                      | n                 | 9.7E+01                                          | n                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Diallate                                           | 2303-16-4  | 3.8E+01                                                       | c                 | 1.2E+00                                      | c                 | 1.2E+02                                          | c                 | —                                                            | —                 | —                                                  | —                 | —                                                     | 3.8E+01                                                       | c                 | 5.8E-01                                      | c                 | 5.8E+01                                          | c                 | —                                                            | —                 | —                                                  | —                 | —                                                     |
| Diazinon                                           | 333-41-5   | 3.1E+01                                                       | n                 | 1.6E-01                                      | n                 | 1.6E+01                                          | n                 | 6.5E+01                                                      | n                 | 2.9E+04                                            | n >S              | —                                                     | 2.1E+01                                                       | n                 | 7.9E-02                                      | n                 | 7.9E+00                                          | n                 | 3.3E+01                                                      | n                 | 1.9E+03                                            | n >S              | —                                                     |
| Dibenz(a,h)acridine                                | 226-36-8   | 3.7E+00                                                       | c                 | 5.8E+01                                      | c >S              | 5.8E+03                                          | c >S              | 1.5E+04                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     | 3.7E+00                                                       | c                 | 2.9E+01                                      | c >S              | 2.9E+03                                          | c >S              | 7.9E+03                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     |
| Dibenz(a,j)acridine                                | 224-42-0   | 5.8E+00                                                       | c                 | 1.1E+02                                      | c >S              | 1.1E+04                                          | c >S              | 2.1E+04                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     | 5.8E+00                                                       | c                 | 5.6E+01                                      | c >S              | 5.6E+03                                          | c >S              | 1.1E+04                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     |
| Dibenz-a,h-anthracene                              | 53-70-3    | 4.0E+00                                                       | c                 | 1.5E+01                                      | m4                | 1.5E+03                                          | m >S              | 2.9E+03                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     | 4.0E+00                                                       | c                 | 7.6E+00                                      | m4                | 7.6E+02                                          | m >S              | 1.5E+03                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     |
| Dibenzo(a,e)pyrene                                 | 192-65-4   | 6.1E-01                                                       | c                 | 1.3E+02                                      | c >S              | 1.3E+04                                          | c >S              | 7.2E+03                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     | 6.1E-01                                                       | c                 | 6.5E+01                                      | c >S              | 6.5E+03                                          | c >S              | 3.7E+03                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     |
| Dibenzo(a,h)pyrene                                 | 189-64-0   | 6.1E-02                                                       | c                 | 1.2E+01                                      | c                 | 1.2E+03                                          | c >S              | 7.0E+02                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     | 6.1E-02                                                       | c                 | 6.0E+00                                      | c                 | 6.0E+02                                          | c >S              | 3.6E+02                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     |
| Dibenzo(a,i)pyrene                                 | 189-55-9   | 6.1E-02                                                       | c                 | 1.2E+01                                      | c                 | 1.2E+03                                          | c >S              | 7.0E+02                                                      | c                 | 1.0E+06                                            | c >S              | —                                                     | 6.1E-02                                                       | c                 | 6                                            |                   |                                                  |                   |                                                              |                   |                                                    |                   |                                                       |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                      | CAS        | 0.5 acre source area                         |                   |                                             |                   |                                               |                   |                                               |                   |                                                   |                   | 30 acre source area                          |                   |                                             |                   |                                               |                   |                                               |                   |                                                   |                   |                                              |   |
|----------------------------------------------------------|------------|----------------------------------------------|-------------------|---------------------------------------------|-------------------|-----------------------------------------------|-------------------|-----------------------------------------------|-------------------|---------------------------------------------------|-------------------|----------------------------------------------|-------------------|---------------------------------------------|-------------------|-----------------------------------------------|-------------------|-----------------------------------------------|-------------------|---------------------------------------------------|-------------------|----------------------------------------------|---|
|                                                          |            | <sup>2</sup> Soil <sub>Comb</sub><br>(mg/kg) | <sup>3</sup> note | <sup>2</sup> Soil <sub>Inq</sub><br>(mg/kg) | <sup>3</sup> note | <sup>3</sup> Soil <sub>Class</sub><br>(mg/kg) | <sup>3</sup> note | <sup>4</sup> Soil <sub>Inh-V</sub><br>(mg/kg) | <sup>3</sup> note | Air <sub>GW-Soil<sub>Inh-V</sub></sub><br>(mg/kg) | <sup>3</sup> note | <sup>2</sup> Soil <sub>Comb</sub><br>(mg/kg) | <sup>3</sup> note | <sup>2</sup> Soil <sub>Inq</sub><br>(mg/kg) | <sup>3</sup> note | <sup>3</sup> Soil <sub>Class</sub><br>(mg/kg) | <sup>3</sup> note | <sup>4</sup> Soil <sub>Inh-V</sub><br>(mg/kg) | <sup>3</sup> note | Air <sub>GW-Soil<sub>Inh-V</sub></sub><br>(mg/kg) | <sup>3</sup> note | <sup>2</sup> Soil <sub>Comb</sub><br>(mg/kg) |   |
| Dibromo-3-chloropropane, 1,2-                            | 96-12-8    | 1.5E-01                                      | c                 | 1.7E-03                                     | m                 | 1.7E-01                                       | m                 | 1.6E-01                                       | c                 | 5.4E+00                                           | c                 | —                                            | 8.0E-02           | c                                           | 8.7E-04           | m                                             | 8.7E-02           | m                                             | 8.1E-02           | c                                                 | 3.5E-01           | c                                            | — |
| Dibromochloromethane (chlorodibromomethane) <sup>8</sup> | 124-48-1   | 7.2E+01                                      | c                 | 3.6E-01                                     | m                 | 3.6E+01                                       | m                 | —                                             | —                 | —                                                 | —                 | —                                            | 7.2E+01           | c                                           | 1.8E-01           | m                                             | 1.8E+01           | m                                             | —                 | —                                                 | —                 | —                                            | — |
| Dibromofluoromethane                                     | 1868-53-7  | 1.6E+04                                      | n                 | 1.6E+01                                     | n                 | 1.6E+03                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 1.6E+04           | n                                           | 7.8E+00           | n                                             | 7.8E+02           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dicamba                                                  | 1918-00-9  | 2.0E+03                                      | n                 | 1.5E+00                                     | n                 | 1.5E+02                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 2.0E+03           | n                                           | 7.3E-01           | n                                             | 7.3E+01           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichlormid                                               | 37764-25-3 | 1.7E+03                                      | n                 | 2.6E+00                                     | n                 | 2.6E+02                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 1.7E+03           | n                                           | 1.3E+00           | n                                             | 1.3E+02           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichloro-2-butene, 1,4-                                  | 764-41-0   | 2.0E-01                                      | c                 | —                                           | —                 | —                                             | —                 | 2.0E-01                                       | c                 | 6.2E+00                                           | c                 | —                                            | 1.0E-01           | c                                           | —                 | —                                             | —                 | —                                             | 1.0E-01           | c                                                 | 4.0E-01           | c                                            | — |
| Dichloro-2-butene, 1,4- trans                            | 110-57-6   | 2.0E-01                                      | c                 | —                                           | —                 | —                                             | —                 | 2.0E-01                                       | c                 | 6.6E+00                                           | c                 | —                                            | 1.1E-01           | c                                           | —                 | —                                             | —                 | —                                             | 1.1E-01           | c                                                 | 4.3E-01           | c                                            | — |
| Dichlorobenzene, 1,2-                                    | 95-50-1    | 7.2E+02                                      | n                 | 1.8E+01                                     | m                 | 1.8E+03                                       | m                 | 8.0E+02                                       | n                 | 3.5E+04                                           | n >S              | —                                            | 3.9E+02           | n                                           | 8.9E+00           | m                                             | 8.9E+02           | m                                             | 4.1E+02           | n                                                 | 2.2E+03           | n                                            | — |
| Dichlorobenzene, 1,3-                                    | 541-73-1   | 1.2E+02                                      | n                 | 6.7E+00                                     | n                 | 6.7E+02                                       | n                 | 1.2E+02                                       | n                 | 1.7E+03                                           | n >S              | —                                            | 6.2E+01           | n                                           | 3.4E+00           | n                                             | 3.4E+02           | n                                             | 6.3E+01           | n                                                 | 1.1E+02           | n                                            | — |
| Dichlorobenzene, 1,4-                                    | 106-46-7   | 2.5E+02                                      | c                 | 2.1E+00                                     | m                 | 2.1E+02                                       | m                 | 1.2E+04                                       | n                 | 4.8E+05                                           | n >S              | —                                            | 2.5E+02           | c                                           | 1.1E+00           | m                                             | 1.1E+02           | m                                             | 6.1E+03           | n                                                 | 3.1E+04           | n >S                                         | — |
| Dichlorobenzidine, 3,3-                                  | 91-94-1    | 1.0E+01                                      | c                 | 6.3E-02                                     | c                 | 6.3E+00                                       | c                 | —                                             | —                 | —                                                 | —                 | —                                            | 1.0E+01           | c                                           | 3.1E-02           | c                                             | 3.1E+00           | c                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichlorobutane, 2,3-                                     | 7581-97-7  | 9.5E+01                                      | n                 | 2.6E+00                                     | n                 | 2.6E+02                                       | n                 | 1.1E+02                                       | n                 | 1.5E+03                                           | n                 | —                                            | 5.2E+01           | n                                           | 1.3E+00           | n                                             | 1.3E+02           | n                                             | 5.5E+01           | n                                                 | 9.9E+01           | n                                            | — |
| Dichlorodifluoromethane                                  | 75-71-8    | 1.4E+03                                      | n                 | 2.4E+02                                     | n                 | 2.4E+04                                       | n >S              | 1.5E+03                                       | n                 | 2.9E+03                                           | n                 | —                                            | 7.5E+02           | n                                           | 1.2E+02           | n                                             | 1.2E+04           | n >S                                          | 7.9E+02           | n                                                 | 1.9E+02           | n                                            | — |
| Dichloroethane, 1,1-                                     | 75-34-3    | 1.1E+04                                      | n                 | 1.8E+01                                     | n                 | 1.8E+03                                       | n                 | 3.7E+04                                       | n                 | 1.6E+05                                           | n >S              | —                                            | 8.8E+03           | n                                           | 9.2E+00           | n                                             | 9.2E+02           | n                                             | 1.9E+04           | n                                                 | 1.1E+04           | n >S                                         | — |
| Dichloroethane, 1,2-                                     | 107-06-2   | 4.1E+01                                      | c                 | 1.4E-02                                     | m                 | 1.4E+00                                       | m                 | 1.1E+02                                       | c                 | 6.9E+02                                           | c                 | —                                            | 3.0E+01           | c                                           | 6.9E-03           | m                                             | 6.9E-01           | m                                             | 5.4E+01           | c                                                 | 4.5E+01           | c                                            | — |
| Dichloroethylene, 1,1-                                   | 75-35-4    | 2.3E+03                                      | n                 | 5.0E-02                                     | m                 | 5.0E+00                                       | m                 | 5.2E+03                                       | n                 | 1.2E+04                                           | n                 | —                                            | 1.6E+03           | n                                           | 2.5E-02           | m                                             | 2.5E+00           | m                                             | 2.7E+03           | n                                                 | 7.7E+02           | n                                            | — |
| Dichloroethylene, cis-1,2-                               | 156-59-2   | 1.4E+02                                      | n                 | 2.5E-01                                     | m                 | 2.5E+01                                       | m                 | 9.2E+02                                       | n                 | 4.4E+03                                           | n                 | —                                            | 1.2E+02           | n                                           | 1.2E+01           | m                                             | 1.2E+01           | m                                             | 4.7E+02           | n                                                 | 2.8E+02           | n                                            | — |
| Dichloroethylene, trans-1,2                              | 156-60-5   | 5.9E+02                                      | n                 | 4.9E-01                                     | m                 | 4.9E+01                                       | m                 | 9.2E+02                                       | n                 | 3.8E+03                                           | n                 | —                                            | 3.7E+02           | n                                           | 2.5E-01           | m                                             | 2.5E+01           | m                                             | 4.7E+02           | n                                                 | 2.4E+02           | n                                            | — |
| Dichlorofluoromethane                                    | 75-43-4    | 1.6E+04                                      | n                 | 1.4E+01                                     | n                 | 1.4E+03                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 1.6E+04           | n                                           | 7.1E+00           | n                                             | 7.1E+02           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichlorophenol, 2,3-                                     | 576-24-9   | 2.0E+02                                      | n                 | 5.4E-01                                     | n                 | 5.4E+01                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 2.0E+02           | n                                           | 2.7E-01           | n                                             | 2.7E+01           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichlorophenol, 2,4-                                     | 120-83-2   | 2.0E+02                                      | n                 | 3.5E-01                                     | n                 | 3.5E+01                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 2.0E+02           | n                                           | 1.8E-01           | n                                             | 1.8E+01           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichlorophenol, 2,5-                                     | 583-78-8   | 2.0E+02                                      | n                 | 5.0E-01                                     | n                 | 5.0E+01                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 2.0E+02           | n                                           | 2.5E-01           | n                                             | 2.5E+01           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichlorophenol, 2,6-                                     | 87-65-0    | 6.7E+01                                      | n                 | 6.9E-02                                     | n                 | 6.9E+00                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 6.7E+01           | n                                           | 3.4E-02           | n                                             | 3.4E+00           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichlorophenol, 3,4-                                     | 95-77-2    | 2.0E+02                                      | n                 | 2.0E+00                                     | n                 | 2.0E+02                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 2.0E+02           | n                                           | 1.0E+00           | n                                             | 1.0E+02           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichlorophenol, 3,5-                                     | 591-35-5   | 2.0E+02                                      | n                 | 1.3E+00                                     | n                 | 1.3E+02                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 2.0E+02           | n                                           | 6.6E-01           | n                                             | 6.6E+01           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)          | 94-82-6    | 5.3E+02                                      | n                 | 3.9E-01                                     | n                 | 3.9E+01                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 5.3E+02           | n                                           | 1.9E-01           | n                                             | 1.9E+01           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)                 | 94-75-7    | 1.5E+04                                      | n                 | 2.6E+00                                     | m                 | 2.6E+02                                       | m                 | —                                             | —                 | —                                                 | —                 | —                                            | 1.5E+04           | n                                           | 1.3E+00           | m                                             | 1.3E+02           | m                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid)    | 120-36-5   | 6.7E+02                                      | n                 | 4.7E-01                                     | n                 | 4.7E+01                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 6.7E+02           | n                                           | 2.3E-01           | n                                             | 2.3E+01           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichloropropane, 1,2-                                    | 78-87-5    | 6.1E+01                                      | n                 | 2.3E-02                                     | m                 | 2.3E+00                                       | m                 | 6.1E+01                                       | n                 | 5.3E+02                                           | n                 | —                                            | 3.1E+01           | n                                           | 1.1E-02           | m                                             | 1.1E+00           | m                                             | 3.2E+01           | n                                                 | 3.4E+01           | n                                            | — |
| Dichloropropane, 1,3-                                    | 142-28-9   | 3.6E+01                                      | c                 | 6.4E-02                                     | c                 | 6.4E+00                                       | c                 | 9.0E+01                                       | c                 | 1.8E+03                                           | c                 | —                                            | 2.6E+01           | c                                           | 3.2E-02           | c                                             | 3.2E+00           | c                                             | 4.6E+01           | c                                                 | 1.2E+02           | c                                            | — |
| Dichloropropane, 2,2-                                    | 594-20-7   | 6.1E+01                                      | n                 | 1.2E-01                                     | c                 | 1.2E+01                                       | c                 | 6.1E+01                                       | n                 | 5.1E+02                                           | n                 | —                                            | 3.1E+01           | n                                           | 6.0E-02           | c                                             | 6.0E+00           | c                                             | 3.2E+01           | n                                                 | 3.3E+01           | n                                            | — |
| Dichloropropanol, 2,3-                                   | 616-23-9   | 2.0E+02                                      | n                 | 2.4E-01                                     | n                 | 2.4E+01                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 2.0E+02           | n                                           | 1.2E-01           | n                                             | 1.2E+01           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dichloropropene, 1,1-                                    | 563-58-6   | 3.6E+01                                      | c                 | 1.3E-01                                     | c                 | 1.3E+01                                       | c                 | 9.0E+01                                       | c                 | 2.8E+02                                           | c                 | —                                            | 2.6E+01           | c                                           | 6.7E-02           | c                                             | 6.7E+00           | c                                             | 4.6E+01           | c                                                 | 1.8E+01           | c                                            | — |
| Dichloropropene, 1,3- (mixed isomers)                    | 542-75-6   | 3.6E+01                                      | c                 | 3.9E-02                                     | c                 | 3.9E+00                                       | c                 | 9.0E+01                                       | c                 | 7.7E+02                                           | c                 | —                                            | 2.6E+01           | c                                           | 2.0E-02           | c                                             | 2.0E+00           | c                                             | 4.6E+01           | c                                                 | 5.0E+01           | c                                            | — |
| Dichloropropene, cis 1,3-                                | 10061-01-5 | 8.0E+00                                      | n                 | 6.6E-03                                     | c                 | 6.6E-01                                       | c                 | 3.1E+02                                       | n                 | 2.7E+03                                           | n                 | —                                            | 7.8E+00           | n                                           | 3.3E-03           | c                                             | 3.3E-01           | c                                             | 1.6E+02           | n                                                 | 1.8E+02           | n                                            | — |
| Dichloropropene, trans 1,3-                              | 10061-02-6 | 3.6E+01                                      | c                 | 3.6E-02                                     | c                 | 3.6E+00                                       | c                 | 9.0E+01                                       | c                 | 7.5E+02                                           | c                 | —                                            | 2.6E+01           | c                                           | 1.8E-02           | c                                             | 1.8E+00           | c                                             | 4.6E+01           | c                                                 | 4.8E+01           | c                                            | — |
| Dichlorvos                                               | 62-73-7    | 1.6E+01                                      | c                 | 4.9E+05                                     | c                 | 1.0E+06                                       | c                 | 1.0E+06                                       | n                 | 1.0E+06                                           | n                 | —                                            | 1.6E+01           | c                                           | 2.4E+05           | c                                             | 1.0E+06           | c                                             | 6.2E+05           | n                                                 | 1.0E+06           | n                                            | — |
| Dicrotophos (bidrin)                                     | 141-66-2   | 6.7E+00                                      | n                 | 4.7E-03                                     | n                 | 4.7E-01                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 6.7E+00           | n                                           | 2.3E-03           | n                                             | 2.3E-01           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Dicyclopentadiene                                        | 77-73-6    | 6.6E+03                                      | n                 | —                                           | —                 | —                                             | —                 | —                                             | —                 | —                                                 | —                 | —                                            | 6.6E+03           | n                                           | —                 | —                                             | —                 | —                                             | —                 | —                                                 | —                 | —                                            | — |
| Dieldrin                                                 | 60-57-1    | 1.5E-01                                      | c                 | 4.9E-02                                     | c                 | 4.9E+00                                       | c                 | 3.2E+01                                       | c                 | 1.1E+05                                           | c >S              | —                                            | 1.5E-01           | c                                           | 2.4E-02           | c                                             | 2.4E+00           | c                                             | 1.6E+01           | c                                                 | 7.0E+03           | c >S                                         | — |
| Diethanolamine                                           | 111-42-2   | 3.3E+01                                      | n                 | 2.3E-02                                     | n                 | 2.3E+00                                       | n                 | 3.5E+03                                       | n                 | 1.0E+06                                           | n                 | —                                            | 3.3E+01           | n                                           | 1.2E-02           | n                                             | 1.2E+00           | n                                             | 1.8E+03           | n                                                 | 9.6E+05           | n                                            | — |
| Diethyldithiocarbamate, sodium salt                      | 148-18-5   | 2.2E+01                                      | c                 | —                                           | —                 | —                                             | —                 | —                                             | —                 | —                                                 | —                 | —                                            | 2.2E+01           | c                                           | —                 | —                                             | —                 | —                                             | —                 | —                                                 | —                 | —                                            | — |
| Diethyl phthalate                                        | 84-66-2    | 5.3E+04                                      | n                 | 1.6E+02                                     | n                 | 1.6E+04                                       | n >S              | —                                             | —                 | —                                                 | —                 | —                                            | 5.3E+04           | n                                           | 7.8E+01           | n                                             | 7.8E+03           | n >S                                          | —                 | —                                                 | —                 | —                                            | — |
| Diethylene glycol                                        | 111-46-6   | 1.3E+05                                      | n                 | 9.4E+01                                     | n                 | 9.4E+03                                       | n                 | —                                             | —                 | —                                                 | —                 | —                                            | 1.3E+05           | n                                           | 4.7E+01           | n                                             | 4.7E+03           | n                                             | —                 | —                                                 | —                 | —                                            | — |
| Diethylene glycol monobutyl ether                        | 112-34-5   | 2.0E+01                                      | n                 | 1.6E+00                                     | n                 | 1.6E+02                                       | n                 | 2.0E+01                                       | n                 | 6.9E+03                                           | n                 | —                                            | 1.0E+01           | n                                           | 7.8E-01           | n                                             | 7.8E+01           | n                                             | 1.0E+01           | n                                                 | 4.4E+02           | n                                            | — |
| Diethylhexyl adipate                                     | 103-23-1   | 3.9E+03                                      | c                 | 6.1E+03                                     | m >S              | 6.1E+05                                       | m >S              | —                                             | —                 | —                                                 | —                 | —                                            | 3.9E+03           | c                                           | 3.0E+03           | m >S                                          | 3.0E+05           | m >S                                          | —                 | —                                                 | —                 | —                                            | — |
| Diethylstilbestrol                                       | 56-53-1    | 7.1E-04                                      | c                 | 5.8E-04                                     | c                 | 5.8E-02                                       | c                 | —                                             | —                 | —                                                 | —                 | —                                            | 7.1E-04           | c                                           | 2.9E-04           | c                                             | 2.9E-02           | c                                             | —                 | —                                                 | —                 | —                                            | — |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)              | 107-39-1   | 1.9E+03                                      | n                 | 6.1E+02                                     | n                 | 6.1E+04                                       | n >S              | 3.1E+03                                       | n                 | 9.5E+03                                           | n >S              | —                                            | 1.2E+03           | n                                           | 3.0E+02           | n                                             | 3.0E+04           | n >S                                          | 1.6E+03           | n                                                 | 6.1E+02           | n                                            | — |
| Diisopropylbenzene, p-                                   | 100-18-5   | 6.7E+02                                      | n                 | 9.5E+01                                     | n                 | 9.5E+03                                       | n >S              | —                                             | —                 | —                                                 | —                 | —                                            | 6.7E+02           | n                                           | 4.7E+01           | n                                             | 4.7E+03           | n >S                                          | —                 | —                                                 | —                 | —                                            | — |
| Diisopropyl ether (2,2'-oxybis-propane)                  | 108-20-3   | 4.6E+03                                      | n                 | 1.2E+01                                     | n                 | 1.2E+03                                       | n                 | 1.1E+04                                       | n                 | 9.6E+04                                           | n >S              | —                                            | 3.3E+03           | n                                           | 6.0E+00           | n                                             | 6.0E+02           | n                                             | 5.5E+03           | n                                                 | 6.2E+03           | n                                            | — |
| Dimethenamid                                             | 87674-68-8 | 1.0E+03                                      | n                 | 1.0E+00                                     | n                 | 1.0E+02                                       | n                 | —                                             | —                 |                                                   |                   |                                              |                   |                                             |                   |                                               |                   |                                               |                   |                                                   |                   |                                              |   |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                           | CAS        | 0.5 acre source area                                              |   |                                                    |      |                                                        |      |                                                                    |   |                                                          |      | 30 acre source area                 |                                                                   |   |                                                    |      |                                                        |      |                                                                    |   |                                                          |      |                                     |   |
|---------------------------------------------------------------|------------|-------------------------------------------------------------------|---|----------------------------------------------------|------|--------------------------------------------------------|------|--------------------------------------------------------------------|---|----------------------------------------------------------|------|-------------------------------------|-------------------------------------------------------------------|---|----------------------------------------------------|------|--------------------------------------------------------|------|--------------------------------------------------------------------|---|----------------------------------------------------------|------|-------------------------------------|---|
|                                                               |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) note <sup>3</sup> |   | GWSoil <sub>Ing</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil <sub>Class 3</sub><br>(mg/kg) note <sup>3</sup> |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) note <sup>3</sup> |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) note <sup>3</sup> |   | GWSoil <sub>Ing</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil <sub>Class 3</sub><br>(mg/kg) note <sup>3</sup> |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) note <sup>3</sup> |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil for Secondary MCL<br>(mg/kg) |   |
| Dimethoxybenzidine, 3,3'-                                     | 119-90-4   | 3.4E+02                                                           | c | 2.8E-01                                            | c    | 2.8E+01                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | 3.4E+02                                                           | c | 1.4E-01                                            | c    | 1.4E+01                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dimethyl-2-nitrobenzene, 1,3-                                 | 81-20-9    | 1.3E+02                                                           | n | 2.2E+00                                            | n    | 2.2E+02                                                | n    | 2.8E+03                                                            | n | 4.9E+05                                                  | n >S | —                                   | 1.2E+02                                                           | n | 1.1E+00                                            | n    | 1.1E+02                                                | n    | 1.4E+03                                                            | n | 3.2E+04                                                  | n >S | —                                   | — |
| Dimethyl-3-nitrobenzene, 1,2-                                 | 83-41-0    | 1.3E+02                                                           | n | 1.4E+00                                            | n    | 1.4E+02                                                | n    | 2.4E+03                                                            | n | 3.9E+05                                                  | n >S | —                                   | 1.2E+02                                                           | n | 7.1E-01                                            | n    | 7.1E+01                                                | n    | 1.2E+03                                                            | n | 2.5E+04                                                  | n >S | —                                   | — |
| Dimethyl-4-nitrobenzene, 1-2-                                 | 99-51-4    | 1.3E+02                                                           | n | 1.4E+00                                            | n    | 1.4E+02                                                | n    | 2.5E+03                                                            | n | 4.2E+05                                                  | n >S | —                                   | 1.2E+02                                                           | n | 7.0E-01                                            | n    | 7.0E+01                                                | n    | 1.3E+03                                                            | n | 2.7E+04                                                  | n >S | —                                   | — |
| Dimethyl-5-nitrobenzene, 1,3-                                 | 99-12-7    | 1.3E+02                                                           | n | 1.6E+00                                            | n    | 1.6E+02                                                | n    | 2.2E+03                                                            | n | 3.2E+05                                                  | n >S | —                                   | 1.2E+02                                                           | n | 8.2E-01                                            | n    | 8.2E+01                                                | n    | 1.1E+03                                                            | n | 2.1E+04                                                  | n >S | —                                   | — |
| Dimethylphenethylamine, alpha, alpha-                         | 122-09-8   | 1.3E+02                                                           | n | 3.8E-01                                            | n    | 3.8E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 1.3E+02                                                           | n | 1.9E-01                                            | n    | 1.9E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dimethyl phenol, 2,4-                                         | 105-67-9   | 1.3E+03                                                           | n | 3.2E+00                                            | n    | 3.2E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 1.3E+03                                                           | n | 1.6E+00                                            | n    | 1.6E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dimethylaminoazobenzene, p-                                   | 60-11-7    | 6.4E-01                                                           | n | 1.1E+00                                            | n    | 1.1E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 6.4E-01                                                           | n | 5.6E-01                                            | n    | 5.6E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dimethylbenz-a-anthracene, 7,12-                              | 57-97-6    | 1.7E-02                                                           | c | 1.2E+00                                            | c    | 1.2E+02                                                | c    | 1.4E+02                                                            | c | 1.0E+06                                                  | c >S | —                                   | 1.7E-02                                                           | c | 6.2E-01                                            | c    | 6.2E+01                                                | c    | 7.3E+01                                                            | c | 7.3E+05                                                  | c >S | —                                   | — |
| Dimethylbenzidine, 3,3'-                                      | 119-93-7   | 4.3E-01                                                           | c | 8.2E-04                                            | c    | 8.2E-02                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | 4.3E-01                                                           | c | 4.1E-04                                            | c    | 4.1E-02                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dimethylformamide, N,N-                                       | 68-12-2    | 2.3E+03                                                           | n | 4.7E+00                                            | n    | 4.7E+02                                                | n    | 3.2E+03                                                            | n | 7.2E+05                                                  | n    | —                                   | 1.4E+03                                                           | n | 2.4E+00                                            | n    | 2.4E+02                                                | n    | 1.6E+03                                                            | n | 4.7E+04                                                  | n    | —                                   | — |
| Dimethylnaphthalene, 1,3-                                     | 575-41-7   | 2.3E+03                                                           | n | 7.9E+02                                            | n    | 7.9E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 2.3E+03                                                           | n | 3.9E+02                                            | n    | 3.9E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dimethylphthalate                                             | 131-11-3   | 5.3E+04                                                           | n | 6.2E+01                                            | n    | 6.2E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 5.3E+04                                                           | n | 3.1E+01                                            | n    | 3.1E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Di-n-butyl phthalate                                          | 84-74-2    | 6.2E+03                                                           | n | 3.3E+03                                            | n    | 3.3E+05                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 6.2E+03                                                           | n | 1.7E+03                                            | n    | 1.7E+05                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)        | 534-52-1   | 6.7E+00                                                           | n | 4.7E-03                                            | n    | 4.7E-01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 6.7E+00                                                           | n | 2.3E-03                                            | n    | 2.3E-01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)                   | 99-65-0    | 6.7E+00                                                           | n | 7.6E-03                                            | n    | 7.6E-01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 6.7E+00                                                           | n | 3.8E-03                                            | n    | 3.8E-01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dinitrobenzene, 1,4-                                          | 100-25-4   | 6.7E+00                                                           | n | 7.2E-03                                            | n    | 7.2E-01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 6.7E+00                                                           | n | 3.6E-03                                            | n    | 3.6E-01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dinitrophenol, 2,4-                                           | 51-28-5    | 1.3E+02                                                           | n | 9.4E-02                                            | n    | 9.4E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 1.3E+02                                                           | n | 4.7E-02                                            | n    | 4.7E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dinitrophenol, 2,5-                                           | 329-71-5   | 1.3E+02                                                           | n | 9.6E-02                                            | n    | 9.6E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 1.3E+02                                                           | n | 4.8E-02                                            | n    | 4.8E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dinitrotoluene, 2,4-                                          | 121-14-2   | 6.9E+00                                                           | c | 5.3E-03                                            | c    | 5.3E-01                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | 6.9E+00                                                           | c | 2.7E-03                                            | c    | 2.7E-01                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dinitrotoluene, 2,6-                                          | 606-20-2   | 6.9E+00                                                           | c | 4.8E-03                                            | c    | 4.8E-01                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | 6.9E+00                                                           | c | 2.4E-03                                            | c    | 2.4E-01                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Di-n-octyl phthalate                                          | 117-84-0   | 6.4E+02                                                           | n | 8.1E+05                                            | n >S | 1.0E+06                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 6.4E+02                                                           | n | 4.1E+05                                            | n >S | 1.0E+06                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dinoseb                                                       | 88-85-7    | 6.7E+01                                                           | n | 3.5E-01                                            | m    | 3.5E+01                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | 6.7E+01                                                           | n | 1.8E-01                                            | m    | 1.8E+01                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dioxane 1,4-                                                  | 123-91-1   | 4.5E+01                                                           | c | 1.8E-02                                            | c    | 1.8E+00                                                | c    | 1.8E+02                                                            | c | 1.5E+04                                                  | c    | —                                   | 3.7E+01                                                           | c | 8.8E-03                                            | c    | 8.8E-01                                                | c    | 9.3E+01                                                            | c | 9.7E+02                                                  | c    | —                                   | — |
| Dioxin (as 2,3,7,8-TCDD toxicity equivalent quotients (TEQs)) | 1746-01-6  | 5.3E-05                                                           | n | 1.7E-02                                            | m    | 1.7E+00                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | 5.3E-05                                                           | n | 8.5E-03                                            | m    | 8.5E-01                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Diphenyl ether                                                | 101-84-8   | 3.8E+02                                                           | n | 9.2E+01                                            | n    | 9.2E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 3.8E+02                                                           | n | 4.6E+01                                            | n    | 4.6E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Diphenylamine                                                 | 122-39-4   | 1.7E+03                                                           | n | 9.6E+00                                            | n    | 9.6E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 1.7E+03                                                           | n | 4.8E+00                                            | n    | 4.8E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Diphenylhydrazine, 1,2-                                       | 122-66-7   | 5.6E+00                                                           | c | 3.2E-02                                            | c    | 3.2E+00                                                | c    | 1.4E+02                                                            | c | 1.1E+05                                                  | c >S | —                                   | 5.4E+00                                                           | c | 1.6E-02                                            | c    | 1.6E+00                                                | c    | 7.2E+01                                                            | c | 7.0E+03                                                  | c    | —                                   | — |
| Dipropylene glycol                                            | 110-98-5   | 8.0E+03                                                           | n | 5.7E+00                                            | n    | 5.7E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 8.0E+03                                                           | n | 2.8E+00                                            | n    | 2.8E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Diquat                                                        | 85-00-7    | 1.5E+02                                                           | n | 2.0E-01                                            | m    | 2.0E+01                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | 1.5E+02                                                           | n | 1.0E-01                                            | m    | 1.0E+01                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)   | 142-73-4   | 6.7E+02                                                           | n | 4.7E-01                                            | n    | 4.7E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 6.7E+02                                                           | n | 2.3E-01                                            | n    | 2.3E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Disulfoton                                                    | 298-04-4   | 2.7E+00                                                           | n | 3.5E-01                                            | n    | 3.5E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 2.7E+00                                                           | n | 1.8E-01                                            | n    | 1.8E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Diuron                                                        | 330-54-1   | 1.3E+02                                                           | n | 9.3E-01                                            | n    | 9.3E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 1.3E+02                                                           | n | 4.6E-01                                            | n    | 4.6E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Dodecylphenol, 4-                                             | 104-43-8   | 3.3E+03                                                           | n | 1.0E+06                                            | n >S | 1.0E+06                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 3.3E+03                                                           | n | 1.0E+06                                            | n >S | 1.0E+06                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Endosulfan                                                    | 115-29-7   | 4.0E+02                                                           | n | 4.6E+00                                            | n    | 4.6E+02                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 4.0E+02                                                           | n | 2.3E+00                                            | n    | 2.3E+02                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Endosulfan I                                                  | 959-98-8   | 9.1E+01                                                           | n | 3.1E+01                                            | n    | 3.1E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 9.1E+01                                                           | n | 1.5E+01                                            | n    | 1.5E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Endosulfan II                                                 | 33213-65-9 | 2.7E+02                                                           | n | 9.2E+01                                            | n    | 9.2E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 2.7E+02                                                           | n | 4.6E+01                                            | n    | 4.6E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Endosulfan sulfate                                            | 1031-07-8  | 3.8E+02                                                           | n | 4.7E+03                                            | n >S | 4.7E+05                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 3.8E+02                                                           | n | 2.3E+03                                            | n >S | 2.3E+05                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Endothall                                                     | 145-73-3   | 1.3E+03                                                           | n | 5.3E-01                                            | m    | 5.3E+01                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | 1.3E+03                                                           | n | 2.7E-01                                            | m    | 2.7E+01                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Endrin                                                        | 72-20-8    | 9.0E+00                                                           | n | 7.5E-01                                            | m    | 7.5E+01                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | 9.0E+00                                                           | n | 3.8E-01                                            | m    | 3.8E+01                                                | m    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Endrin aldehyde                                               | 7421-93-4  | 1.9E+01                                                           | n | 6.3E+02                                            | n    | 6.3E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 1.9E+01                                                           | n | 3.1E+02                                            | n    | 3.1E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Endrin ketone                                                 | 53494-70-5 | 1.9E+01                                                           | n | 5.1E+01                                            | n    | 5.1E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 1.9E+01                                                           | n | 2.5E+01                                            | n    | 2.5E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Epichlorohydrin                                               | 106-89-8   | 2.5E+01                                                           | n | 1.8E-01                                            | c    | 1.8E+01                                                | c    | 2.6E+01                                                            | n | 1.4E+03                                                  | n    | —                                   | 1.3E+01                                                           | n | 9.2E-02                                            | c    | 9.2E+00                                                | c    | 1.4E+01                                                            | n | 9.1E+01                                                  | n    | —                                   | — |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate)         | 2104-64-5  | 6.7E-01                                                           | n | 5.5E-02                                            | n    | 5.5E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 6.7E-01                                                           | n | 2.7E-02                                            | n    | 2.7E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Esfenvalerate                                                 | 66230-04-4 | 7.4E+01                                                           | n | 1.2E+02                                            | n >S | 1.2E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | 7.4E+01                                                           | n | 6.2E+01                                            | n >S | 6.2E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Ethalfuralin (sonolan)                                        | 55283-68-6 | 4.7E+01                                                           | c | 2.5E+01                                            | c    | 2.5E+03                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | 4.7E+01                                                           | c | 1.2E+01                                            | c    | 1.2E+03                                                | c    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Ethanol                                                       | 64-17-5    | 1.0E+06                                                           | n | 1.6E+03                                            | n    | 1.6E+05                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 1.0E+06                                                           | n | 7.9E+02                                            | n    | 7.9E+04                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Ethanol, 2-amino-                                             | 141-43-5   | 1.1E+02                                                           | n | 8.0E-02                                            | n    | 8.0E+00                                                | n    | 2.9E+03                                                            | n | 8.1E+05                                                  | n    | —                                   | 1.1E+02                                                           | n | 4.0E-02                                            | n    | 4.0E+00                                                | n    | 1.5E+03                                                            | n | 5.3E+04                                                  | n    | —                                   | — |
| Ethanol, 2-(2-aminoethoxy)-                                   | 929-06-6   | 3.3E+01                                                           | n | 2.3E-02                                            | n    | 2.3E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 3.3E+01                                                           | n | 1.2E-02                                            | n    | 1.2E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Ethanol, 2-(2-ethoxyethoxy)-                                  | 111-90-0   | 1.3E+05                                                           | n | 1.6E+02                                            | n    | 1.6E+04                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | 1.3E+05                                                           | n | 8.2E+01                                            | n    | 8.2E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Ethanol, 2-(methylamino)-                                     | 109-83-1   | 9.1E+02                                                           | n | 7.5E-01                                            | n    | 7.5E+01                                                | n    | 6.4E+03                                                            | n | 1.0E+06                                                  | n    | —                                   | 8.1E+02                                                           | n | 3.8E-01                                            | n    | 3.8E+01                                                | n    | 3.3E+03                                                            | n | 1.3E+05                                                  | n    | —                                   | — |
| Ethion                                                        | 563-12-2   | 2.7E+01                                                           | n | 7.6E+00                                            | n    | 7.                                                     |      |                                                                    |   |                                                          |      |                                     |                                                                   |   |                                                    |      |                                                        |      |                                                                    |   |                                                          |      |                                     |   |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                              | CAS        | 0.5 acre source area                                              |   |                                                    |      |                                                        |      |                                                                    |   |                                                          |      | 30 acre source area                    |   |                                                                   |   |                                                    |      |                                                        |      |                                                                    |   |                                                          |      |                                        |   |   |
|--------------------------------------------------|------------|-------------------------------------------------------------------|---|----------------------------------------------------|------|--------------------------------------------------------|------|--------------------------------------------------------------------|---|----------------------------------------------------------|------|----------------------------------------|---|-------------------------------------------------------------------|---|----------------------------------------------------|------|--------------------------------------------------------|------|--------------------------------------------------------------------|---|----------------------------------------------------------|------|----------------------------------------|---|---|
|                                                  |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) note <sup>3</sup> |   | GWSoil <sub>Ing</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil <sub>Class 3</sub><br>(mg/kg) note <sup>3</sup> |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) note <sup>3</sup> |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil for Secondary<br>MCL<br>(mg/kg) |   | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) note <sup>3</sup> |   | GWSoil <sub>Ing</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil <sub>Class 3</sub><br>(mg/kg) note <sup>3</sup> |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) note <sup>3</sup> |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil for Secondary<br>MCL<br>(mg/kg) |   |   |
| Ethoprop                                         | 13194-48-4 | 6.7E+00                                                           | n | 1.2E-01                                            | n    | 1.2E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 6.7E+00                                                           | n | 6.2E-02                                            | n    | 6.2E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Ethoxy ethanol, 2-                               | 110-80-5   | 5.7E+03                                                           | n | 4.3E+00                                            | n    | 4.3E+02                                                | n >S | 2.5E+04                                                            | n | 1.0E+06                                                  | n >S | —                                      | — | 4.7E+03                                                           | n | 2.1E+00                                            | n    | 2.1E+02                                                | n >S | 1.3E+04                                                            | n | 4.2E+05                                                  | n >S | —                                      | — | — |
| Ethyl acetate                                    | 141-78-6   | 3.5E+03                                                           | n | 4.7E+01                                            | n    | 4.7E+03                                                | n    | 3.7E+03                                                            | n | 1.1E+05                                                  | n    | —                                      | — | 1.8E+03                                                           | n | 2.4E+01                                            | n    | 2.4E+03                                                | n    | 1.9E+03                                                            | n | 7.3E+03                                                  | n    | —                                      | — | — |
| Ethyl acrylate                                   | 140-88-5   | 1.3E+02                                                           | c | 1.2E-01                                            | c    | 1.2E+01                                                | c    | 2.4E+02                                                            | n | 6.8E+03                                                  | n    | —                                      | — | 9.6E+01                                                           | n | 5.9E-02                                            | c    | 5.9E+00                                                | c    | 1.2E+02                                                            | n | 4.4E+02                                                  | n    | —                                      | — | — |
| Ethyl benzene                                    | 100-41-4   | 6.4E+03                                                           | n | 7.6E+00                                            | m    | 7.6E+02                                                | m    | 2.9E+04                                                            | n | 3.2E+05                                                  | n >S | —                                      | — | 5.3E+03                                                           | n | 3.8E+00                                            | m    | 3.8E+02                                                | m    | 1.5E+04                                                            | n | 2.1E+04                                                  | n >S | —                                      | — | — |
| Ethyl dipropylthiocarbamate, S-                  | 759-94-4   | 1.7E+03                                                           | n | 7.0E+00                                            | n    | 7.0E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 1.7E+03                                                           | n | 3.5E+00                                            | n    | 3.5E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Ethyl ether                                      | 60-29-7    | 1.6E+04                                                           | n | 1.1E+01                                            | n    | 1.1E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 1.6E+04                                                           | n | 5.6E+00                                            | n    | 5.6E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Ethyl methacrylate                               | 97-63-2    | 3.6E+03                                                           | n | 7.5E+00                                            | n    | 7.5E+02                                                | n    | 7.1E+03                                                            | n | 1.9E+05                                                  | n >S | —                                      | — | 2.4E+03                                                           | n | 3.8E+00                                            | n    | 3.8E+02                                                | n    | 3.6E+03                                                            | n | 1.3E+04                                                  | n    | —                                      | — | — |
| Ethyl methanesulfonate                           | 62-50-0    | 3.4E+01                                                           | c | 1.8E-02                                            | c    | 1.8E+00                                                | c    | 1.2E+02                                                            | c | 3.6E+04                                                  | c    | —                                      | — | 2.7E+01                                                           | c | 8.9E-03                                            | c    | 8.9E-01                                                | c    | 6.1E+01                                                            | c | 2.3E+03                                                  | c    | —                                      | — | — |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane) | 637-92-3   | 8.0E+01                                                           | n | 8.9E-02                                            | n    | 8.9E+00                                                | n    | 4.6E+03                                                            | n | 4.0E+04                                                  | n >S | —                                      | — | 7.9E+01                                                           | n | 4.5E-02                                            | n    | 4.5E+00                                                | n    | 2.4E+03                                                            | n | 2.6E+03                                                  | n    | —                                      | — | — |
| Ethyl-1-hexanol, 2-                              | 104-76-7   | 1.0E+04                                                           | n | 7.6E+01                                            | n    | 7.6E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 1.0E+04                                                           | n | 3.8E+01                                            | n    | 3.8E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Ethyl-2-hexenal, 2-                              | 645-62-5   | 1.2E+04                                                           | n | 2.8E+01                                            | n    | 2.8E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 1.2E+04                                                           | n | 1.4E+01                                            | n    | 1.4E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Ethyl-2-methyl benzene, 1-                       | 611-14-3   | 2.8E+03                                                           | n | 5.6E+01                                            | n    | 5.6E+03                                                | n >S | 8.4E+03                                                            | n | 4.2E+05                                                  | n >S | —                                      | — | 2.1E+03                                                           | n | 2.8E+01                                            | n    | 2.8E+03                                                | n >S | 4.3E+03                                                            | n | 2.7E+04                                                  | n >S | —                                      | — | — |
| Ethyl-4-methyl benzene, 1-                       | 622-96-8   | 2.6E+03                                                           | n | 6.0E+01                                            | n    | 6.0E+03                                                | n >S | 7.2E+03                                                            | n | 3.4E+05                                                  | n >S | —                                      | — | 1.9E+03                                                           | n | 3.0E+01                                            | n    | 3.0E+03                                                | n >S | 3.7E+03                                                            | n | 2.2E+04                                                  | n >S | —                                      | — | — |
| Ethylene*                                        | 74-85-1    | —                                                                 | — | —                                                  | —    | —                                                      | —    | —                                                                  | — | —                                                        | —    | —                                      | — | —                                                                 | — | —                                                  | —    | —                                                      | —    | —                                                                  | — | —                                                        | —    | —                                      | — |   |
| Ethylene dibromide (dibromoethane, 1,2- )        | 106-93-4   | 2.5E+00                                                           | c | 2.1E-04                                            | m    | 2.1E-02                                                | m    | 1.3E+01                                                            | c | 3.1E+02                                                  | c    | —                                      | — | 2.1E+00                                                           | c | 1.0E-04                                            | m    | 1.0E-02                                                | m    | 6.8E+00                                                            | c | 2.0E+01                                                  | c    | —                                      | — | — |
| Ethylene glycol                                  | 107-21-1   | 1.3E+05                                                           | n | 9.4E+01                                            | n    | 9.4E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 1.3E+05                                                           | n | 4.7E+01                                            | n    | 4.7E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Ethylene oxide                                   | 75-21-8    | 5.8E+00                                                           | c | 1.8E-03                                            | c    | 1.8E-01                                                | c    | 2.6E+02                                                            | c | 6.0E+03                                                  | c    | —                                      | — | 5.7E+00                                                           | c | 9.0E-04                                            | c    | 9.0E-02                                                | c    | 1.3E+02                                                            | c | 3.9E+02                                                  | c    | —                                      | — | — |
| Ethylene thiourea                                | 96-45-7    | 5.3E+00                                                           | n | 3.8E-03                                            | n    | 3.8E-01                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 5.3E+00                                                           | n | 1.9E-03                                            | n    | 1.9E-01                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Ethylenediamine                                  | 107-15-3   | 7.4E+03                                                           | n | 4.6E+00                                            | n    | 4.6E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 7.4E+03                                                           | n | 2.3E+00                                            | n    | 2.3E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Ethylenimine                                     | 151-56-4   | 5.5E-02                                                           | c | 2.8E-05                                            | c    | 2.8E-03                                                | c    | 1.3E-01                                                            | c | 2.8E+01                                                  | c    | —                                      | — | 3.9E-02                                                           | c | 1.4E-05                                            | c    | 1.4E-03                                                | c    | 6.8E-02                                                            | c | 1.8E+00                                                  | c    | —                                      | — | — |
| Ethylhexyl acrylate, 2-                          | 103-11-7   | 9.8E+01                                                           | c | 7.7E+00                                            | c    | 7.7E+02                                                | c    | —                                                                  | — | —                                                        | —    | —                                      | — | 9.8E+01                                                           | c | 3.8E+00                                            | c    | 3.8E+02                                                | c    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Famphur                                          | 52-85-7    | 2.0E+00                                                           | n | 1.8E-03                                            | n    | 1.8E-01                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 2.0E+00                                                           | n | 9.1E-04                                            | n    | 9.1E-02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Fensulfothion                                    | 115-90-2   | 6.7E+01                                                           | n | 3.5E-01                                            | n    | 3.5E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 6.7E+01                                                           | n | 1.8E-01                                            | n    | 1.8E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Fenthion                                         | 55-38-9    | 4.7E+00                                                           | n | 7.9E-02                                            | n    | 7.9E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 4.7E+00                                                           | n | 3.9E-02                                            | n    | 3.9E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Fenuron                                          | 101-42-8   | 4.7E+03                                                           | n | 4.6E+00                                            | n    | 4.6E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 4.7E+03                                                           | n | 2.3E+00                                            | n    | 2.3E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Fluoranthene                                     | 206-44-0   | 2.3E+03                                                           | n | 1.9E+03                                            | n >S | 1.9E+05                                                | n >S | —                                                                  | — | —                                                        | —    | —                                      | — | 2.3E+03                                                           | n | 9.6E+02                                            | n >S | 9.6E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Fluorene                                         | 86-73-7    | 2.3E+03                                                           | n | 3.0E+02                                            | n    | 3.0E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                      | — | 2.3E+03                                                           | n | 1.5E+02                                            | n    | 1.5E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Fluorine (soluble fluoride)                      | 7782-41-4  | 4.8E+03                                                           | n | —                                                  | —    | —                                                      | —    | —                                                                  | — | —                                                        | —    | —                                      | — | 4.8E+03                                                           | n | —                                                  | —    | —                                                      | —    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Fluorochloridone                                 | 61213-25-0 | 5.0E+02                                                           | n | 4.0E+00                                            | n    | 4.0E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 5.0E+02                                                           | n | 2.0E+00                                            | n    | 2.0E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Fonofos                                          | 944-22-9   | 1.3E+02                                                           | n | 7.1E+00                                            | n    | 7.1E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 1.3E+02                                                           | n | 3.6E+00                                            | n    | 3.6E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Formaldehyde                                     | 50-00-0    | 9.3E+02                                                           | n | 9.8E+00                                            | n    | 9.8E+02                                                | n    | 9.9E+02                                                            | n | 1.7E+05                                                  | n    | —                                      | — | 4.9E+02                                                           | n | 4.9E+00                                            | n    | 4.9E+02                                                | n    | 5.1E+02                                                            | n | 1.1E+04                                                  | n    | —                                      | — | — |
| Formic acid                                      | 64-18-6    | 2.1E+02                                                           | n | 4.2E+01                                            | n    | 4.2E+03                                                | n    | 2.1E+02                                                            | n | 3.4E+04                                                  | n    | —                                      | — | 1.1E+02                                                           | n | 2.1E+01                                            | n    | 2.1E+03                                                | n    | 1.1E+02                                                            | n | 2.2E+03                                                  | n    | —                                      | — | — |
| Furan                                            | 110-00-9   | 8.2E+01                                                           | n | 8.1E-02                                            | n    | 8.1E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 8.2E+01                                                           | n | 4.1E-02                                            | n    | 4.1E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Furfural                                         | 98-01-1    | 2.5E+02                                                           | n | 1.5E-01                                            | n    | 1.5E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | 2.5E+02                                                           | n | 7.4E-02                                            | n    | 7.4E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Glycidylaldehyde                                 | 765-34-4   | 2.7E+01                                                           | n | 2.2E-02                                            | n    | 2.2E+00                                                | n    | 1.5E+02                                                            | n | 3.3E+04                                                  | n    | —                                      | — | 2.3E+01                                                           | n | 1.1E-02                                            | n    | 1.1E+00                                                | n    | 7.7E+01                                                            | n | 2.1E+03                                                  | n    | —                                      | — | — |
| Glyphosate                                       | 1071-83-6  | 6.7E+04                                                           | n | 2.9E+01                                            | m    | 2.9E+03                                                | m    | —                                                                  | — | —                                                        | —    | —                                      | — | 6.7E+04                                                           | n | 1.5E+01                                            | m    | 1.5E+03                                                | m    | —                                                                  | — | —                                                        | —    | —                                      | — | — |
| Heptachlor                                       | 76-44-8    | 1.3E-01                                                           | c | 1.9E-01                                            | m    | 1.9E+01                                                | m    | 9.1E+00                                                            | c | 3.0E+03                                                  | c >S | —                                      | — | 1.3E-01                                                           | c | 9.4E-02                                            | m    | 9.4E+00                                                | m    | 4.7E+00                                                            | c | 1.9E+02                                                  | c >S | —                                      | — | — |
| Heptachlor epoxide                               | 1024-57-3  | 2.4E-01                                                           | c | 5.8E-02                                            | m    | 5.8E+00                                                | m    | 2.4E+01                                                            | c | 3.5E+04                                                  | c >S | —                                      | — | 2.4E-01                                                           | c | 2.9E-02                                            | m    | 2.9E+00                                                | m    | 1.2E+01                                                            | c | 2.2E+03                                                  | c >S | —                                      | — | — |
| Heptane, n-                                      | 142-82-5   | 4.7E+03                                                           | n | 7.2E+02                                            | n    | 7.2E+04                                                | n >S | 1.4E+05                                                            | n | 4.2E+05                                                  | n >S | —                                      | — | 4.6E+03                                                           | n | 3.6E+02                                            | n    | 3.6E+04                                                | n >S | 7.1E+04                                                            | n | 2.7E+04                                                  | n >S | —                                      | — | — |
| Heptanoic acid, n-                               | 111-14-8   | 1.2E+02                                                           | n | 2.4E+01                                            | n    | 2.4E+03                                                | n    | 1.2E+02                                                            | n | 3.2E+04                                                  | n >S | —                                      | — | 6.3E+01                                                           | n | 1.2E+01                                            | n    | 1.2E+03                                                | n    | 6.3E+01                                                            | n | 2.1E+03                                                  | n >S | —                                      | — | — |
| Hexachlorobenzene                                | 118-74-1   | 1.1E+00                                                           | c | 1.1E+00                                            | m    | 1.1E+02                                                | m >S | 1.9E+01                                                            | c | 6.4E+03                                                  | c >S | —                                      | — | 1.0E+00                                                           | c | 5.6E-01                                            | m    | 5.6E+01                                                | m >S | 9.8E+00                                                            | c | 4.2E+02                                                  | c >S | —                                      | — | — |
| Hexachlorobutadiene                              | 87-68-3    | 2.0E+01                                                           | c | 3.3E+00                                            | c    | 3.3E+02                                                | c    | 2.9E+01                                                            | c | 2.5E+03                                                  | c >S | —                                      | — | 1.2E+01                                                           | c | 1.6E+00                                            | c    | 1.6E+02                                                | c    | 1.5E+01                                                            | c | 1.6E+02                                                  | c    | —                                      | — | — |
| Hexachlorocyclohexane, alpha (alpha-BHC)         | 319-84-6   | 2.6E-01                                                           | c | 7.9E-03                                            | c    | 7.9E-01                                                | c    | 1.4E+01                                                            | c | 8.4E+03                                                  | c >S | —                                      | — | 2.5E-01                                                           | c | 4.0E-03                                            | c    | 4.0E-01                                                | c    | 7.2E+00                                                            | c | 5.4E+02                                                  | c >S | —                                      | — | — |
| Hexachlorocyclohexane, beta (beta-BHC)           | 319-85-7   | 9.3E-01                                                           | c | 2.9E-02                                            | c    | 2.9E+00                                                | c    | 7.2E+01                                                            | c | 6.6E+04                                                  | c >S | —                                      | — | 9.2E-01                                                           | c | 1.4E-02                                            | c    | 1.4E+00                                                | c    | 3.7E+01                                                            | c | 4.2E+03                                                  | c >S | —                                      | — | — |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | 0.5 acre source area                            |                   |                                  |                   |                                      |                   |                                                  |                   |                                        |                   | 30 acre source area                 |                                                 |                   |                                  |                   |                                      |                   |                                                  |                   |                                        |                   |                                     |
|----------------------------------------------------|------------|-------------------------------------------------|-------------------|----------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------|-------------------------------------------------|-------------------|----------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------|
|                                                    |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) |
| Hexanal, 2-ethyl-                                  | 123-05-7   | 1.0E+04                                         | n                 | 2.6E+01                          | n                 | 2.6E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.0E+04                                         | n                 | 1.3E+01                          | n                 | 1.3E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Hexane, n-                                         | 110-54-3   | 3.3E+03                                         | n                 | 2.0E+02                          | n                 | 2.0E+04                              | n >S              | 1.0E+04                                          | n                 | 5.3E+03                                | n >S              | —                                   | 2.5E+03                                         | n                 | 1.0E+02                          | n                 | 1.0E+04                              | n >S              | 5.3E+03                                          | n                 | 3.4E+02                                | n                 | —                                   |
| Hexanediamine, 1,6-                                | 124-09-4   | 3.3E+02                                         | n                 | 2.5E-01                          | n                 | 2.5E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 3.3E+02                                         | n                 | 1.2E-01                          | n                 | 1.2E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Hexanedinitrile                                    | 111-69-3   | 8.5E+01                                         | n                 | 6.8E-02                          | n                 | 6.8E+00                              | n                 | 9.8E+02                                          | n                 | 3.2E+05                                | n                 | —                                   | 7.9E+01                                         | n                 | 3.4E-02                          | n                 | 3.4E+00                              | n                 | 5.1E+02                                          | n                 | 2.1E+04                                | n                 | —                                   |
| Hexanediol, 1,6-                                   | 629-11-8   | 3.0E+05                                         | n                 | 2.6E+02                          | n                 | 2.6E+04                              | n                 | 1.0E+06                                          | n                 | 1.0E+06                                | n >S              | —                                   | 2.8E+05                                         | n                 | 1.3E+02                          | n                 | 1.3E+04                              | n                 | 1.0E+06                                          | n                 | 1.0E+06                                | n >S              | —                                   |
| Hexanoic acid                                      | 142-62-1   | 1.3E+02                                         | n                 | 3.0E+00                          | n                 | 3.0E+02                              | n                 | 1.4E+02                                          | n                 | 4.0E+04                                | n >S              | —                                   | 6.9E+01                                         | n                 | 1.5E+00                          | n                 | 1.5E+02                              | n                 | 7.0E+01                                          | n                 | 2.6E+03                                | n                 | —                                   |
| Hexanone, 2-                                       | 591-78-6   | 6.9E+02                                         | n                 | 3.2E+00                          | n                 | 3.2E+02                              | n                 | 8.3E+02                                          | n                 | 3.0E+04                                | n                 | —                                   | 3.8E+02                                         | n                 | 1.6E+00                          | n                 | 1.6E+02                              | n                 | 4.2E+02                                          | n                 | 2.0E+03                                | n                 | —                                   |
| Hexazinone                                         | 51235-04-2 | 2.2E+03                                         | n                 | 2.7E+00                          | n                 | 2.7E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.2E+03                                         | n                 | 1.4E+00                          | n                 | 1.4E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Hexene, 1-                                         | 592-41-6   | 1.6E+03                                         | n                 | 7.4E+02                          | n                 | 7.4E+04                              | n >S              | 1.7E+03                                          | n                 | 3.1E+03                                | n >S              | —                                   | 8.4E+02                                         | n                 | 3.7E+02                          | n                 | 3.7E+04                              | n >S              | 8.7E+02                                          | n                 | 2.0E+02                                | n                 | —                                   |
| Hexene, cis-2-                                     | 7688-21-3  | 1.6E+03                                         | n                 | 6.2E+02                          | n                 | 6.2E+04                              | n >S              | 1.7E+03                                          | n                 | 3.7E+03                                | n >S              | —                                   | 8.4E+02                                         | n                 | 3.1E+02                          | n                 | 3.1E+04                              | n >S              | 8.7E+02                                          | n                 | 2.4E+02                                | n                 | —                                   |
| Hexylene glycol (2-methyl-2,4-pentanediol)         | 107-41-5   | 2.0E+04                                         | n                 | 1.5E+01                          | n                 | 1.5E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.0E+04                                         | n                 | 7.4E+00                          | n                 | 7.4E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Hydrazine                                          | 302-01-2   | 3.8E-01                                         | c                 | 5.8E-04                          | c                 | 5.8E-02                              | c                 | 4.6E-01                                          | c                 | 9.8E+01                                | c                 | —                                   | 2.1E-01                                         | c                 | 2.9E-04                          | c                 | 2.9E-02                              | c                 | 2.4E-01                                          | c                 | 6.4E+00                                | c                 | —                                   |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)     | 1191-25-9  | 1.6E+02                                         | n                 | 3.0E+00                          | n                 | 3.0E+02                              | n                 | 1.6E+02                                          | n                 | 5.6E+04                                | n >S              | —                                   | 8.1E+01                                         | n                 | 1.5E+00                          | n                 | 1.5E+02                              | n                 | 8.3E+01                                          | n                 | 4.1E+03                                | n                 | —                                   |
| Hydrogen chloride (hydrochloric acid)*             | 7647-01-0  | —                                               | —                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   | —                                               | —                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 |                                     |
| Hydroquinone                                       | 123-31-9   | 7.8E+01                                         | c                 | 3.1E-02                          | c                 | 3.1E+00                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 7.8E+01                                         | c                 | 1.6E-02                          | c                 | 1.6E+00                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Indene                                             | 95-13-6    | 1.0E+02                                         | n                 | 7.1E+00                          | n                 | 7.1E+02                              | n                 | 1.1E+02                                          | n                 | 4.0E+03                                | n                 | —                                   | 5.6E+01                                         | n                 | 3.6E+00                          | n                 | 3.6E+02                              | n                 | 5.8E+01                                          | n                 | 2.6E+02                                | n                 | —                                   |
| Indeno-1,2,3-cd-pyrene                             | 193-39-5   | 4.2E+01                                         | c                 | 1.3E+03                          | c >S              | 1.3E+05                              | c >S              | 3.7E+04                                          | c                 | 1.0E+06                                | c >S              | —                                   | 4.2E+01                                         | c                 | 6.3E+02                          | c >S              | 6.3E+04                              | c >S              | 1.9E+04                                          | c                 | 1.0E+06                                | c >S              | —                                   |
| Iron*                                              | 7439-89-6  | —                                               | —                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   | —                                               | —                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 |                                     |
| Isoamyl alcohol                                    | 123-51-3   | 4.1E+02                                         | n                 | 3.2E-01                          | n                 | 3.2E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 4.1E+02                                         | n                 | 1.6E-01                          | n                 | 1.6E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Isobutyl alcohol                                   | 78-83-1    | 2.5E+04                                         | n                 | 1.6E+01                          | n                 | 1.6E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.5E+04                                         | n                 | 7.9E+00                          | n                 | 7.9E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Isobutylene (2-methyl-1-propene)                   | 115-11-7   | 3.0E+02                                         | n                 | 2.7E+00                          | n                 | 2.7E+02                              | n                 | 1.0E+06                                          | n                 | 1.0E+06                                | n >S              | —                                   | 3.0E+02                                         | n                 | 1.4E+00                          | n                 | 1.4E+02                              | n                 | 8.7E+05                                          | n                 | 1.2E+05                                | n >S              | —                                   |
| Isobutyric acid (2-methylpropanoic acid)           | 79-31-2    | 3.3E+04                                         | n                 | 2.3E+01                          | n                 | 2.3E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 3.3E+04                                         | n                 | 1.2E+01                          | n                 | 1.2E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Isodecanol                                         | 25339-17-7 | 7.1E+01                                         | n                 | 3.0E+00                          | n                 | 3.0E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 7.1E+01                                         | n                 | 1.5E+00                          | n                 | 1.5E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Isodrin                                            | 465-73-6   | 2.7E-02                                         | c                 | 1.5E+00                          | c                 | 1.5E+02                              | c                 | 1.7E+00                                          | c                 | 9.4E+03                                | c >S              | —                                   | 2.7E-02                                         | c                 | 7.4E-01                          | c                 | 7.4E+01                              | c                 | 9.0E-01                                          | c                 | 6.1E+02                                | c                 | —                                   |
| Isopentane                                         | 78-78-4    | 4.8E+03                                         | n                 | 2.7E+02                          | n                 | 2.7E+04                              | n >S              | 3.7E+05                                          | n                 | 4.5E+05                                | n >S              | —                                   | 4.8E+03                                         | n                 | 1.3E+02                          | n                 | 1.3E+04                              | n >S              | 1.9E+05                                          | n                 | 2.9E+04                                | n >S              | —                                   |
| Isophorone                                         | 78-59-1    | 4.9E+03                                         | c                 | 3.0E+00                          | c                 | 3.0E+02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 4.9E+03                                         | c                 | 1.5E+00                          | c                 | 1.5E+02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Isopropyl acetate                                  | 108-21-4   | 5.7E+03                                         | n                 | 4.0E+00                          | n                 | 4.0E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 5.7E+03                                         | n                 | 2.0E+00                          | n                 | 2.0E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Isopropyl alcohol                                  | 67-63-0    | 9.1E+03                                         | n                 | 1.0E+02                          | n                 | 1.0E+04                              | n                 | 9.7E+03                                          | n                 | 8.7E+05                                | n >S              | —                                   | 4.8E+03                                         | n                 | 5.0E+01                          | n                 | 5.0E+03                              | n                 | 5.0E+03                                          | n                 | 5.6E+04                                | n                 | —                                   |
| Isosafrole                                         | 120-58-1   | 1.7E+01                                         | c                 | 1.3E-01                          | c                 | 1.3E+01                              | c                 | 9.1E+01                                          | c                 | 1.3E+04                                | c >S              | —                                   | 1.5E+01                                         | c                 | 6.5E-02                          | c                 | 6.5E+00                              | c                 | 4.7E+01                                          | c                 | 8.6E+02                                | c                 | —                                   |
| Kelthane (dicofol)                                 | 115-32-2   | 2.7E+02                                         | n                 | 7.4E+01                          | n                 | 7.4E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 2.7E+02                                         | n                 | 3.7E+01                          | n                 | 3.7E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Kepone (chlordecone)                               | 143-50-0   | 3.6E-01                                         | c                 | 9.9E-02                          | c                 | 9.9E+00                              | c                 | 4.9E+01                                          | c                 | 2.5E+05                                | c >S              | —                                   | 3.5E-01                                         | c                 | 4.9E-02                          | c                 | 4.9E+00                              | c                 | 2.5E+01                                          | c                 | 1.6E+04                                | c >S              | —                                   |
| Lead (inorganic)                                   | 7439-92-1  | 5.0E+02                                         | e                 | 3.0E+00                          | e >S              | 3.0E+02                              | e >S              | —                                                | —                 | —                                      | —                 | —                                   | 5.0E+02                                         | e                 | 1.5E+00                          | e >S              | 1.5E+02                              | e >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Leptophos                                          | 21609-90-5 | 1.6E-01                                         | n                 | 6.4E-01                          | n                 | 6.4E+01                              | n >S              | 3.3E+01                                          | n                 | 3.4E+05                                | n >S              | —                                   | 1.6E-01                                         | n                 | 3.2E-01                          | n                 | 3.2E+01                              | n >S              | 1.7E+01                                          | n                 | 2.2E+04                                | n >S              | —                                   |
| Limonene, d-*                                      | 5989-27-5  | —                                               | —                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   | —                                               | —                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 |                                     |
| Lithium                                            | 7439-93-2  | 4.4E+02                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   | 4.4E+02                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   |
| Magnesium*                                         | 7439-95-4  | —                                               | —                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   | —                                               | —                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   |
| Malathion                                          | 121-75-5   | 1.7E+02                                         | n                 | 6.6E+00                          | n                 | 6.6E+02                              | n                 | 2.0E+02                                          | n                 | 1.2E+05                                | n >S              | —                                   | 9.6E+01                                         | n                 | 3.3E+00                          | n                 | 3.3E+02                              | n                 | 1.0E+02                                          | n                 | 8.0E+03                                | n >S              | —                                   |
| Maleic anhydride                                   | 108-31-6   | 6.7E+03                                         | n                 | 7.2E+00                          | n                 | 7.2E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 6.7E+03                                         | n                 | 3.6E+00                          | n                 | 3.6E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Maleic hydrazide                                   | 123-33-1   | 3.3E+04                                         | n                 | 3.6E+01                          | n                 | 3.6E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 3.3E+04                                         | n                 | 1.8E+01                          | n                 | 1.8E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Malononitrile                                      | 109-77-3   | 6.7E+00                                         | n                 | 5.2E-03                          | n                 | 5.2E-01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 6.7E+00                                         | n                 | 2.6E-03                          | n                 | 2.6E-01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Mancozeb                                           | 8018-01-7  | 2.0E+03                                         | n                 | 1.8E+00                          | n                 | 1.8E+02                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 2.0E+03                                         | n                 | 9.0E-01                          | n                 | 9.0E+01                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Manganese                                          | 7439-96-5  | 3.9E+03                                         | n                 | 1.2E+03                          | n >S              | 1.2E+05                              | n >S              | —                                                | —                 | —                                      | —                 | 5.0E+01                             | 3.9E+03                                         | n                 | 5.8E+02                          | n >S              | 5.8E+04                              | n >S              | —                                                | —                 | —                                      | —                 | 2.5E+01                             |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | 3.3E+01                                         | n                 | 2.3E-02                          | n                 | 2.3E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 3.3E+01                                         | n                 | 1.2E-02                          | n                 | 1.2E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | 6.7E+01                                         | n                 | 4.7E-02                          | n                 | 4.7E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 6.7E+01                                         | n                 | 2.3E-02                          | n                 | 2.3E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Mercury (pH = 4.9) <sup>5</sup>                    | 7439-97-6  | 3.6E+00                                         | n                 | 7.8E-03                          | m                 | 7.8E-01                              | m >S              | 4.6E+00                                          | n                 | 2.8E+01                                | n >S              | —                                   | 2.1E+00                                         | n                 | 3.9E-03                          | m                 | 3.9E-01                              | m >S              | 2.4E+00                                          | n                 | 1.8E+00                                | n >S              | —                                   |
| Mercury (pH=6.8) <sup>5</sup>                      | 7439-97-6  | 8.3E+00                                         | n                 | 2.1E+00                          | m                 | 2.1E+02                              | m >S              | 1.6E+01                                          | n                 | 7.6E+03                                | n >S              | —                                   | 5.5E+00                                         | n                 | 1.0E+00                          | m                 | 1.0E+02                              | m >S              | 8.0E+00                                          | n                 | 4.9E+02                                | n >S              | —                                   |
| Merphos                                            | 150-50-5   | 2.0E+00                                         | n                 | 6.5E+00                          | n                 | 6.5E+02                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 2.0E+00                                         | n                 | 3.2E+00                          | n                 | 3.2E+02                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Methacrylic acid (2-methyl-2-propenoic acid)       | 79-41-4    | 8.2E+02                                         | n                 | 4.7E-01                          | n                 | 4.7E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 8.2E+02                                         | n                 | 2.3E-01                          | n                 | 2.3E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methacrylonitrile                                  | 126-98-7   | 5.1E+02                                         | n                 | 2.5E+00                          | n                 | 2.5E+02                              | n                 | 5.8E+02                                          | n                 | 2.3E+04                                | n                 | —                                   | 2.8E+02                                         | n                 | 1.3E+00                          | n                 | 1.3E+02                              | n                 | 3.0E+02                                          | n                 | 1.5E+03                                | n                 | —                                   |
| Methanol                                           | 67-56-1    | 1.1E+05                                         | n                 | 9.4E+01                          | n                 | 9.4E+03                              | n                 | 3.3E+05                                          | n                 | 1.0E+06                                | n >S              | —                                   | 8.3E+04                                         | n                 | 4.7E+01                          | n                 | 4.7E+03                              | n                 | 1.7E+05                                          | n                 | 9.6E+05                                | n >S              | —                                   |
| Methapyrillene                                     | 91-80-5    | 1.0E+00                                         | c                 | 5.3E-04                          | c                 | 5.3E-02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 1.0E+00                                         | c                 | 2.6E-04                          | c                 | 2.6E-02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methylol                                           | 16752-77-5 | 1.7E+03                                         | n                 | 5.1E+00                          | n                 | 5.1E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.7E+03                                         | n                 | 2.5E+00                          | n                 | 2.5E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | 0.5 acre source area                            |                   |                                  |                   |                                      |                   |                                                  |                   |                                        |                   | 30 acre source area                 |                                                 |                   |                                  |                   |                                      |                   |                                                  |                   |                                        |                   |                                     |
|-----------------------------------------------|------------|-------------------------------------------------|-------------------|----------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------|-------------------------------------------------|-------------------|----------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------|
|                                               |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) |
| Methoxychlor                                  | 72-43-5    | 2.7E+02                                         | n                 | 1.2E+02                          | m                 | 1.2E+04                              | m >S              | —                                                | —                 | —                                      | —                 | —                                   | 2.7E+02                                         | n                 | 6.2E+01                          | m                 | 6.2E+03                              | m >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Methoxyethanol, 2-                            | 109-86-4   | 2.7E+02                                         | n                 | 3.6E+00                          | n                 | 3.6E+02                              | n >S              | 3.1E+02                                          | n                 | 4.5E+02                                | n >S              | —                                   | 1.5E+02                                         | n                 | 1.8E+00                          | n                 | 1.8E+02                              | n >S              | 1.6E+02                                          | n                 | 2.9E+01                                | n                 | —                                   |
| Methyl acetate (acetic acid, methyl ester)    | 79-20-9    | 8.2E+04                                         | n                 | 4.9E+01                          | n                 | 4.9E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 8.2E+04                                         | n                 | 2.4E+01                          | n                 | 2.4E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methyl acrylate                               | 96-33-3    | 1.1E+02                                         | n                 | 1.0E-01                          | n                 | 1.0E+01                              | n                 | 3.1E+02                                          | n                 | 5.7E+03                                | n                 | —                                   | 8.0E+01                                         | n                 | 5.2E-02                          | n                 | 5.2E+00                              | n                 | 1.6E+02                                          | n                 | 3.7E+02                                | n                 | —                                   |
| Methyl amyl ketone (2-heptanone)              | 110-43-0   | 3.9E+03                                         | n                 | 4.7E+00                          | n                 | 4.7E+02                              | n                 | 1.1E+05                                          | n                 | 1.0E+06                                | n >S              | —                                   | 3.8E+03                                         | n                 | 2.4E+00                          | n                 | 2.4E+02                              | n                 | 5.7E+04                                          | n                 | 2.8E+05                                | n >S              | —                                   |
| Methyl chrysene, 1-                           | 3351-28-8  | 5.8E+02                                         | c                 | 2.2E+04                          | c >S              | 1.0E+06                              | c >S              | 1.0E+06                                          | c                 | 1.0E+06                                | c >S              | —                                   | 5.8E+02                                         | c                 | 1.1E+04                          | c >S              | 1.0E+06                              | c >S              | 1.0E+06                                          | c                 | 1.0E+06                                | c >S              | —                                   |
| Methyl chrysene, 2-                           | 3351-32-4  | 5.8E+02                                         | c                 | 2.2E+04                          | c >S              | 1.0E+06                              | c >S              | 1.0E+06                                          | c                 | 1.0E+06                                | c >S              | —                                   | 5.8E+02                                         | c                 | 1.1E+04                          | c >S              | 1.0E+06                              | c >S              | 1.0E+06                                          | c                 | 1.0E+06                                | c >S              | —                                   |
| Methyl chrysene, 6-                           | 1705-85-7  | 5.7E+01                                         | c                 | 1.8E+03                          | c >S              | 1.8E+05                              | c >S              | 2.3E+05                                          | c                 | 1.0E+06                                | c >S              | —                                   | 5.7E+01                                         | c                 | 8.8E+02                          | c >S              | 8.8E+04                              | c >S              | 1.2E+05                                          | c                 | 1.0E+06                                | c >S              | —                                   |
| Methyl cyclohexane                            | 108-87-2   | 4.1E+04                                         | n                 | 1.6E+04                          | n >S              | 1.0E+06                              | n >S              | 4.6E+04                                          | n                 | 1.8E+05                                | n >S              | —                                   | 2.2E+04                                         | n                 | 7.8E+03                          | n >S              | 7.8E+05                              | n >S              | 2.4E+04                                          | n                 | 1.2E+04                                | n >S              | —                                   |
| Methyl ethyl ketone (2-butanone)              | 78-93-3    | 4.0E+04                                         | n                 | 2.9E+01                          | n                 | 2.9E+03                              | n                 | 2.0E+05                                          | n                 | 1.0E+06                                | n >S              | —                                   | 3.3E+04                                         | n                 | 1.5E+01                          | n                 | 1.5E+03                              | n                 | 1.0E+05                                          | n                 | 6.2E+05                                | n >S              | —                                   |
| Methyl iodide (iodomethane)                   | 74-88-4    | 1.1E+02                                         | n                 | 1.1E-01                          | n                 | 1.1E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.1E+02                                         | n                 | 5.7E-02                          | n                 | 5.7E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methyl isobutyl ketone (4-methyl-2-pentanone) | 108-10-1   | 5.9E+03                                         | n                 | 4.9E+00                          | n                 | 4.9E+02                              | n                 | 5.8E+04                                          | n                 | 1.0E+06                                | n >S              | —                                   | 5.4E+03                                         | n                 | 2.5E+00                          | n                 | 2.5E+02                              | n                 | 3.0E+04                                          | n                 | 1.1E+05                                | n >S              | —                                   |
| Methyl mercury                                | 22967-92-6 | 8.0E+00                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   | 8.0E+00                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methyl methacrylate                           | 80-62-6    | 9.8E+03                                         | n                 | 9.8E+01                          | n                 | 9.8E+03                              | n                 | 1.1E+04                                          | n                 | 2.3E+05                                | n >S              | —                                   | 5.3E+03                                         | n                 | 4.9E+01                          | n                 | 4.9E+03                              | n                 | 5.5E+03                                          | n                 | 1.5E+04                                | n                 | —                                   |
| Methyl methanesulfonate                       | 66-27-3    | 3.3E+01                                         | c                 | 1.8E-02                          | c                 | 1.8E+00                              | c                 | 1.1E+02                                          | c                 | 3.2E+04                                | c                 | —                                   | 2.6E+01                                         | c                 | 8.9E-03                          | c                 | 8.9E-01                              | c                 | 5.7E+01                                          | c                 | 2.1E+03                                | c                 | —                                   |
| Methyl parathion                              | 298-00-0   | 1.7E+01                                         | n                 | 1.7E-01                          | n                 | 1.7E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.7E+01                                         | n                 | 8.5E-02                          | n                 | 8.5E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methyl-1-butene, 2-                           | 563-46-2   | 4.8E+03                                         | n                 | 6.5E+01                          | n                 | 6.5E+03                              | n >S              | 2.8E+05                                          | n                 | 3.4E+05                                | n >S              | —                                   | 4.7E+03                                         | n                 | 3.2E+01                          | n                 | 3.2E+03                              | n >S              | 1.4E+05                                          | n                 | 2.2E+04                                | n >S              | —                                   |
| Methyl-1-propanal, 2- (isobutyraldehyde)      | 78-84-2    | 3.3E+03                                         | n                 | 2.1E+00                          | n                 | 2.1E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 3.3E+03                                         | n                 | 1.0E+00                          | n                 | 1.0E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methyl-2-butene, 2-                           | 513-35-9   | 4.8E+03                                         | n                 | 3.9E+01                          | n                 | 3.9E+03                              | n                 | 2.8E+05                                          | n                 | 4.0E+05                                | n >S              | —                                   | 4.7E+03                                         | n                 | 1.9E+01                          | n                 | 1.9E+03                              | n                 | 1.4E+05                                          | n                 | 2.6E+04                                | n >S              | —                                   |
| Methyl-2-pentenal, 2-                         | 623-36-9   | 3.2E+00                                         | c                 | 1.5E-03                          | c                 | 1.5E-01                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 3.2E+00                                         | c                 | 7.3E-04                          | c                 | 7.3E-02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methylcholanthrene, 3-                        | 56-49-5    | 1.9E-01                                         | c                 | 1.5E+01                          | c                 | 1.5E+03                              | c >S              | 1.8E+03                                          | c                 | 1.0E+06                                | c >S              | —                                   | 1.9E-01                                         | c                 | 7.6E+00                          | c                 | 7.6E+02                              | c >S              | 9.0E+02                                          | c                 | 1.0E+06                                | c >S              | —                                   |
| Methylene bromide (dibromomethane)            | 74-95-3    | 8.1E+01                                         | n                 | 1.1E+00                          | c                 | 1.1E+02                              | c                 | 8.2E+01                                          | n                 | 2.2E+03                                | n                 | —                                   | 4.2E+01                                         | n                 | 5.6E-01                          | c                 | 5.6E+01                              | c                 | 4.2E+01                                          | n                 | 1.4E+02                                | n                 | —                                   |
| Methylene chloride (dichloromethane)          | 75-09-2    | 1.6E+03                                         | n                 | 1.3E-02                          | m                 | 1.3E+00                              | m                 | 1.3E+04                                          | c                 | 5.6E+04                                | c >S              | —                                   | 1.5E+03                                         | n                 | 6.5E-03                          | m                 | 6.5E-01                              | m                 | 6.6E+03                                          | c                 | 3.6E+03                                | c                 | —                                   |
| Methylene-bis (2-chloroaniline) 4,4'-         | 101-14-4   | 4.6E+01                                         | c                 | 2.9E+00                          | c                 | 2.9E+02                              | c                 | 2.7E+03                                          | c                 | 1.0E+06                                | c >S              | —                                   | 4.5E+01                                         | c                 | 1.4E+00                          | c                 | 1.4E+02                              | c                 | 1.4E+03                                          | c                 | 4.1E+05                                | c >S              | —                                   |
| Methylmercury hydroxide                       | 1184-57-2  | 6.7E+00                                         | n                 | 4.8E-03                          | n                 | 4.8E-01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 6.7E+00                                         | n                 | 2.4E-03                          | n                 | 2.4E-01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methylnaphthalene, 1-                         | 90-12-0    | 1.5E+02                                         | c                 | 2.9E+00                          | c                 | 2.9E+02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 1.5E+02                                         | c                 | 1.5E+00                          | c                 | 1.5E+02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methylnaphthalene, 2-                         | 91-57-6    | 2.5E+02                                         | n                 | 1.7E+01                          | n                 | 1.7E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.5E+02                                         | n                 | 8.5E+00                          | n                 | 8.5E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methylpyrrolidone, N-                         | 872-50-4   | 1.3E+03                                         | n                 | 9.6E-01                          | n                 | 9.6E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+03                                         | n                 | 4.8E-01                          | n                 | 4.8E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Methylstyrene, alpha-                         | 98-83-9    | 2.8E+02                                         | n                 | 6.5E+00                          | n                 | 6.5E+02                              | n                 | 4.8E+02                                          | n                 | 2.1E+04                                | n >S              | —                                   | 1.8E+02                                         | n                 | 3.3E+00                          | n                 | 3.3E+02                              | n                 | 2.5E+02                                          | n                 | 1.4E+03                                | n >S              | —                                   |
| Methyltetrahydrofuran, 2-                     | 96-47-9    | 1.5E+02                                         | c                 | 2.7E-01                          | c                 | 2.7E+01                              | c                 | 1.9E+02                                          | c                 | 4.2E+03                                | c                 | —                                   | 8.6E+01                                         | c                 | 1.4E-01                          | c                 | 1.4E+01                              | c                 | 9.7E+01                                          | c                 | 2.7E+02                                | c                 | —                                   |
| Methyltetrahydropyran, 2-                     | 10141-72-7 | 1.7E+02                                         | c                 | 3.3E-01                          | c                 | 3.3E+01                              | c                 | 2.2E+02                                          | c                 | 5.7E+03                                | c                 | —                                   | 9.8E+01                                         | c                 | 1.6E-01                          | c                 | 1.6E+01                              | c                 | 1.1E+02                                          | c                 | 3.7E+02                                | c                 | —                                   |
| Metolachlor                                   | 51218-45-2 | 1.0E+04                                         | n                 | 1.1E+02                          | n                 | 1.1E+04                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.0E+04                                         | n                 | 5.5E+01                          | n                 | 5.5E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Metribuzin                                    | 21087-64-9 | 1.7E+03                                         | n                 | 1.2E+00                          | n                 | 1.2E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.7E+03                                         | n                 | 6.1E-01                          | n                 | 6.1E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Mirex                                         | 2385-85-5  | 1.3E+01                                         | n                 | 4.5E+03                          | n >S              | 4.5E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+01                                         | n                 | 2.2E+03                          | n >S              | 2.2E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Molinate                                      | 2212-67-1  | 1.3E+02                                         | n                 | 1.9E-01                          | n                 | 1.9E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+02                                         | n                 | 9.6E-02                          | n                 | 9.6E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Molybdenum                                    | 7439-98-7  | 1.6E+02                                         | n                 | 4.9E+01                          | n >S              | 4.9E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 1.6E+02                                         | n                 | 2.5E+01                          | n >S              | 2.5E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Monocrotophos                                 | 2157-98-4  | 4.0E+01                                         | n                 | 2.9E-02                          | n                 | 2.9E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 4.0E+01                                         | n                 | 1.5E-02                          | n                 | 1.5E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Morpholine                                    | 110-91-8   | 1.0E+06                                         | n                 | 2.4E+04                          | n                 | 1.0E+06                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.0E+06                                         | n                 | 1.2E+04                          | n                 | 9.8E+05                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Morpholine, N-butyl-                          | 1005-67-0  | 1.5E+02                                         | n                 | 2.3E-01                          | n                 | 2.3E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.5E+02                                         | n                 | 1.2E-01                          | n                 | 1.2E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| MTBE (methyl tert-butyl ether) <sup>6</sup>   | 1634-04-4  | 8.0E+02                                         | n                 | 6.2E-01                          | n                 | 6.2E+01                              | n                 | 1.4E+03                                          | c                 | 1.0E+04                                | c                 | 3.8E-02                             | 5.9E+02                                         | c                 | 3.1E-01                          | n                 | 3.1E+01                              | n                 | 7.1E+02                                          | c                 | 6.6E+02                                | c                 | 1.9E-02                             |
| Naled                                         | 300-76-5   | 1.3E+02                                         | n                 | 3.5E-01                          | n                 | 3.5E+01                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+02                                         | n                 | 1.8E-01                          | n                 | 1.8E+01                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Naphthalene                                   | 91-20-3    | 2.2E+02                                         | n                 | 3.1E+01                          | n                 | 3.1E+03                              | n >S              | 2.7E+02                                          | n                 | 2.0E+04                                | n >S              | —                                   | 1.2E+02                                         | n                 | 1.6E+01                          | n                 | 1.6E+03                              | n >S              | 1.4E+02                                          | n                 | 1.3E+03                                | n >S              | —                                   |
| Naphthoquinone, 1,4-                          | 130-15-4   | 4.7E+02                                         | n                 | 4.6E-01                          | n                 | 4.6E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 4.7E+02                                         | n                 | 2.3E-01                          | n                 | 2.3E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Naphthylamine, 1-                             | 134-32-7   | 1.3E+03                                         | n                 | 9.4E+00                          | n                 | 9.4E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+03                                         | n                 | 4.7E+00                          | n                 | 4.7E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Naphthylamine, 2-                             | 91-59-8    | 2.6E+00                                         | c                 | 1.3E-02                          | c                 | 1.3E+00                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 2.6E+00                                         | c                 | 6.4E-03                          | c                 | 6.4E-01                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Napropamide                                   | 15299-99-7 | 6.7E+03                                         | n                 | 5.5E+02                          | n                 | 5.5E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 6.7E+03                                         | n                 | 2.7E+02                          | n                 | 2.7E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Neopentyl glycol                              | 126-30-7   | 2.0E+04                                         | n                 | 1.5E+01                          | n                 | 1.5E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.0E+04                                         | n                 | 7.3E+00                          | n                 | 7.3E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nickel and compounds                          | 7440-02-0  | 8.4E+02                                         | n                 | 1.6E+02                          | n >S              | 1.6E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 8.4E+02                                         | n                 | 7.9E+01                          | n >S              | 7.9E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrate-N <sup>7, 9</sup>                     | 14797-55-8 | 1.3E+05                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+05                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrite-N <sup>7, 9</sup>                     | 14797-65-0 | 8.0E+03                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   | 8.0E+03                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitroaniline, 2-                              | 88-74-4    | 1.4E+01                                         | n                 | 2.2E-02                          | n                 | 2.2E+00                              | n                 | 4.8E+                                            |                   |                                        |                   |                                     |                                                 |                   |                                  |                   |                                      |                   |                                                  |                   |                                        |                   |                                     |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                 | CAS        | 0.5 acre source area                            |                   |                                  |                   |                                      |                   |                                                  |                   |                                        |                   | 30 acre source area                 |                                                 |                   |                                  |                   |                                      |                   |                                                  |                   |                                        |                   |                                     |
|-------------------------------------|------------|-------------------------------------------------|-------------------|----------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------|-------------------------------------------------|-------------------|----------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------|
|                                     |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) |
| Nitroaniline, 4-                    | 100-01-6   | 2.2E+02                                         | n                 | 1.1E-01                          | c                 | 1.1E+01                              | c                 | 1.2E+03                                          | n                 | 3.4E+05                                | n >S              | —                                   | 1.9E+02                                         | n                 | 5.4E-02                          | c                 | 5.4E+00                              | c                 | 6.2E+02                                          | n                 | 2.2E+04                                | n >S              | —                                   |
| Nitrobenzene                        | 98-95-3    | 6.1E+01                                         | n                 | 3.5E-01                          | n                 | 3.5E+01                              | n                 | 6.6E+01                                          | c                 | 5.2E+03                                | c                 | —                                   | 3.4E+01                                         | c                 | 1.8E-01                          | n                 | 1.8E+01                              | n                 | 3.4E+01                                          | c                 | 3.4E+02                                | c                 | —                                   |
| Nitroglycerin                       | 55-63-0    | 6.7E+00                                         | n                 | 1.4E-02                          | n                 | 1.4E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 6.7E+00                                         | n                 | 6.9E-03                          | n                 | 6.9E-01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrophenol, 2-                     | 88-75-5    | 1.3E+02                                         | n                 | 1.3E-01                          | n                 | 1.3E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+02                                         | n                 | 6.7E-02                          | n                 | 6.7E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrophenol, 3-                     | 554-84-7   | 1.3E+02                                         | n                 | 2.3E-01                          | n                 | 2.3E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+02                                         | n                 | 1.1E-01                          | n                 | 1.1E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrophenol, 4-                     | 100-02-7   | 1.3E+02                                         | n                 | 1.0E-01                          | n                 | 1.0E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+02                                         | n                 | 5.0E-02                          | n                 | 5.0E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitropropane, 2-                    | 79-46-9    | 6.2E-01                                         | c                 | 7.1E-03                          | n                 | 7.1E-01                              | n                 | 6.2E-01                                          | c                 | 1.7E+01                                | c                 | —                                   | 3.2E-01                                         | c                 | 3.5E-03                          | n                 | 3.5E-01                              | n                 | 3.2E-01                                          | c                 | 1.1E+00                                | c                 | —                                   |
| Nitroquinoline-N-oxide, 4-          | 56-57-5    | 4.0E-01                                         | c                 | 2.3E-04                          | c                 | 2.3E-02                              | c                 | 1.9E+00                                          | c                 | 2.7E+04                                | c                 | —                                   | 3.3E-01                                         | c                 | 1.2E-04                          | c                 | 1.2E-02                              | c                 | 9.7E-01                                          | c                 | 1.3E+04                                | c                 | —                                   |
| Nitrosodiethanolamine               | 1116-54-7  | 1.7E+00                                         | c                 | 6.6E-04                          | c                 | 6.6E-02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 1.7E+00                                         | c                 | 3.3E-04                          | c                 | 3.3E-02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrosodiethylamine, n-             | 55-18-5    | 2.5E-02                                         | c                 | 1.2E-05                          | c                 | 1.2E-03                              | c                 | 6.6E-02                                          | c                 | 1.5E+01                                | c                 | —                                   | 1.8E-02                                         | c                 | 6.2E-06                          | c                 | 6.2E-04                              | c                 | 3.4E-02                                          | c                 | 9.7E-01                                | c                 | —                                   |
| Nitrosodimethylamine, n-            | 62-75-9    | 7.4E-02                                         | c                 | 3.7E-05                          | c                 | 3.7E-03                              | c                 | 2.0E-01                                          | c                 | 4.2E+01                                | c                 | —                                   | 5.5E-02                                         | c                 | 1.8E-05                          | c                 | 1.8E-03                              | c                 | 1.0E-01                                          | c                 | 2.7E+00                                | c                 | —                                   |
| Nitrosodi-n-butylamine, n-          | 924-16-3   | 4.7E-01                                         | c                 | 1.9E-03                          | c                 | 1.9E-01                              | c                 | 1.0E+00                                          | c                 | 5.2E+01                                | c                 | —                                   | 3.3E-01                                         | c                 | 9.4E-04                          | c                 | 9.4E-02                              | c                 | 5.3E-01                                          | c                 | 3.4E+00                                | c                 | —                                   |
| Nitrosodi-n-propylamine, n-         | 621-64-7   | 4.0E-01                                         | c                 | 3.5E-04                          | c                 | 3.5E-02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 4.0E-01                                         | c                 | 1.8E-04                          | c                 | 1.8E-02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrosodiphenylamine                | 86-30-6    | 5.7E+02                                         | c                 | 2.8E+00                          | c                 | 2.8E+02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 5.7E+02                                         | c                 | 1.4E+00                          | c                 | 1.4E+02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitroso-methyl-ethyl-amine, n-      | 10595-95-6 | 2.8E-01                                         | c                 | 1.1E-04                          | c                 | 1.1E-02                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 2.8E-01                                         | c                 | 5.7E-05                          | c                 | 5.7E-03                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrosomorpholine, N-               | 59-89-2    | 5.0E-01                                         | c                 | 2.6E-04                          | c                 | 2.6E-02                              | c                 | 1.7E+00                                          | c                 | 5.2E+02                                | c                 | —                                   | 3.9E-01                                         | c                 | 1.3E-04                          | c                 | 1.3E-02                              | c                 | 8.8E-01                                          | c                 | 3.4E+01                                | c                 | —                                   |
| Nitroso-n-ethylurea, n-             | 759-73-9   | 3.4E-02                                         | c                 | 2.1E-05                          | c                 | 2.1E-03                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 3.4E-02                                         | c                 | 1.0E-05                          | c                 | 1.0E-03                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrosopiperidine, N-               | 100-75-4   | 3.6E-01                                         | c                 | 2.1E-04                          | c                 | 2.1E-02                              | c                 | 1.3E+00                                          | c                 | 3.5E+02                                | c                 | —                                   | 2.9E-01                                         | c                 | 1.0E-04                          | c                 | 1.0E-02                              | c                 | 6.9E-01                                          | c                 | 2.3E+01                                | c                 | —                                   |
| Nitrosopyrrolidine, n-              | 930-55-2   | 1.6E+00                                         | c                 | 8.4E-04                          | c                 | 8.4E-02                              | c                 | 5.8E+00                                          | c                 | 1.9E+03                                | c                 | —                                   | 1.3E+00                                         | c                 | 4.2E-04                          | c                 | 4.2E-02                              | c                 | 3.0E+00                                          | c                 | 1.2E+02                                | c                 | —                                   |
| Nitrotoluene, m-                    | 99-08-1    | 6.7E+02                                         | n                 | 1.8E+00                          | n                 | 1.8E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 6.7E+02                                         | n                 | 9.2E-01                          | n                 | 9.2E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrotoluene, o-                    | 88-72-2    | 2.1E+01                                         | c                 | 3.1E-02                          | c                 | 3.1E+00                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 2.1E+01                                         | c                 | 1.6E-02                          | c                 | 1.6E+00                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nitrotoluene, p-                    | 99-99-0    | 2.7E+02                                         | n                 | 4.3E-01                          | c                 | 4.3E+01                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 2.7E+02                                         | n                 | 2.2E-01                          | c                 | 2.2E+01                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Nonachlor, cis-                     | 5103-73-1  | 5.6E+00                                         | c                 | 1.3E+01                          | c                 | 1.3E+03                              | c >S              | 1.2E+03                                          | c                 | 1.0E+06                                | c >S              | —                                   | 5.6E+00                                         | c                 | 6.3E+00                          | c                 | 6.3E+02                              | c >S              | 6.4E+02                                          | c                 | 2.4E+05                                | c >S              | —                                   |
| Nonachlor, trans-                   | 39765-80-5 | 5.6E+00                                         | c                 | 1.3E+01                          | c                 | 1.3E+03                              | c >S              | 1.2E+03                                          | c                 | 1.0E+06                                | c >S              | —                                   | 5.6E+00                                         | c                 | 6.3E+00                          | c                 | 6.3E+02                              | c >S              | 6.4E+02                                          | c                 | 2.4E+05                                | c >S              | —                                   |
| Nonanal                             | 124-19-6   | 1.3E+04                                         | n                 | 1.5E+02                          | n                 | 1.5E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+04                                         | n                 | 7.4E+01                          | n                 | 7.4E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Nonene, 1-n                         | 124-11-8   | 8.2E+03                                         | n                 | 3.3E+03                          | n >S              | 3.3E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 8.2E+03                                         | n                 | 1.6E+03                          | n >S              | 1.6E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Nonylphenol, 4-n-                   | 104-40-5   | 6.5E+03                                         | n                 | 3.0E+05                          | n >S              | 1.0E+06                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 6.5E+03                                         | n                 | 1.5E+05                          | n >S              | 1.0E+06                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Nonylphenol ethoxylate              | 9016-45-9  | 6.5E+03                                         | n                 | 7.5E+05                          | n >S              | 1.0E+06                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 6.5E+03                                         | n                 | 3.7E+05                          | n >S              | 1.0E+06                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Octamethylpyrophosphoramide         | 152-16-9   | 1.3E+02                                         | n                 | 9.4E-02                          | n                 | 9.4E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+02                                         | n                 | 4.7E-02                          | n                 | 4.7E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Octanone                            | 106-68-3   | 4.9E+03                                         | n                 | 1.1E+01                          | n                 | 1.1E+03                              | n                 | 9.0E+05                                          | n                 | 1.0E+06                                | n >S              | —                                   | 4.9E+03                                         | n                 | 5.5E+00                          | n                 | 5.5E+02                              | n                 | 4.6E+05                                          | n                 | 1.0E+06                                | n >S              | —                                   |
| Oxamyl                              | 23135-22-0 | 1.7E+03                                         | n                 | 4.2E-01                          | m                 | 4.2E+01                              | m                 | —                                                | —                 | —                                      | —                 | —                                   | 1.7E+03                                         | n                 | 2.1E-01                          | m                 | 2.1E+01                              | m                 | —                                                | —                 | —                                      | —                 | —                                   |
| Oxychlordane                        | 27304-13-8 | 5.6E+00                                         | c                 | 1.3E+01                          | c                 | 1.3E+03                              | c >S              | 1.2E+03                                          | c                 | 1.0E+06                                | c >S              | —                                   | 5.6E+00                                         | c                 | 6.3E+00                          | c                 | 6.3E+02                              | c >S              | 6.4E+02                                          | c                 | 2.4E+05                                | c >S              | —                                   |
| Paraquat                            | 1910-42-5  | 3.0E+02                                         | n                 | 2.1E-01                          | n                 | 2.1E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 3.0E+02                                         | n                 | 1.1E-01                          | n                 | 1.1E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Parathion (ethyl parathion)         | 56-38-2    | 4.0E+02                                         | n                 | 3.3E+01                          | n                 | 3.3E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 4.0E+02                                         | n                 | 1.7E+01                          | n                 | 1.7E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Pebulate                            | 1114-71-2  | 3.3E+03                                         | n                 | 2.3E+01                          | n                 | 2.3E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 3.3E+03                                         | n                 | 1.2E+01                          | n                 | 1.2E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Pendimethalin                       | 40487-42-1 | 2.5E+03                                         | n                 | 7.5E+03                          | n >S              | 7.5E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 2.5E+03                                         | n                 | 3.7E+03                          | n >S              | 3.7E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Pentachlorobenzene                  | 608-93-5   | 5.3E+01                                         | n                 | 2.5E+01                          | n                 | 2.5E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 5.3E+01                                         | n                 | 1.2E+01                          | n                 | 1.2E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Pentachloroethane                   | 76-01-7    | 3.9E+01                                         | c                 | 9.7E-02                          | c                 | 9.7E+00                              | c                 | 9.4E+01                                          | c                 | 2.8E+03                                | c                 | —                                   | 2.8E+01                                         | c                 | 4.8E-02                          | c                 | 4.8E+00                              | c                 | 4.8E+01                                          | c                 | 1.8E+02                                | c                 | —                                   |
| Pentachloronitrobenzene             | 82-68-8    | 1.0E+01                                         | c                 | 1.8E+00                          | c                 | 1.8E+02                              | c >S              | —                                                | —                 | —                                      | —                 | —                                   | 1.0E+01                                         | c                 | 9.2E-01                          | c                 | 9.2E+01                              | c >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Pentachlorophenol                   | 87-86-5    | 7.3E-01                                         | c                 | 1.8E-02                          | m                 | 1.8E+00                              | m                 | —                                                | —                 | —                                      | —                 | —                                   | 7.3E-01                                         | c                 | 9.2E-03                          | m                 | 9.2E-01                              | m                 | —                                                | —                 | —                                      | —                 | —                                   |
| Pentadiene, 1,3-cis-                | 1574-41-0  | 4.8E+03                                         | n                 | 1.9E+01                          | n                 | 1.9E+03                              | n                 | 2.8E+05                                          | n                 | 5.5E+05                                | n >S              | —                                   | 4.7E+03                                         | n                 | 9.4E+00                          | n                 | 9.4E+02                              | n                 | 1.4E+05                                          | n                 | 3.6E+04                                | n >S              | —                                   |
| Pentadiene, 1,3-trans-              | 2004-70-8  | 4.8E+03                                         | n                 | 1.3E+01                          | n                 | 1.3E+03                              | n                 | 2.8E+05                                          | n                 | 6.7E+05                                | n >S              | —                                   | 4.7E+03                                         | n                 | 6.5E+00                          | n                 | 6.5E+02                              | n                 | 1.4E+05                                          | n                 | 4.3E+04                                | n >S              | —                                   |
| Pentaerythritol tetranitrate (PETN) | 78-11-5    | 1.3E+02                                         | n                 | 1.2E+01                          | n                 | 1.2E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.3E+02                                         | n                 | 6.2E+00                          | n                 | 6.2E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Pentane                             | 109-66-0   | 4.8E+03                                         | n                 | 3.5E+02                          | n                 | 3.5E+04                              | n >S              | 3.7E+05                                          | n                 | 8.1E+04                                | n >S              | —                                   | 4.8E+03                                         | n                 | 1.7E+02                          | n                 | 1.7E+04                              | n >S              | 1.9E+05                                          | n                 | 5.2E+03                                | n >S              | —                                   |
| Pentane, 2-methyl-                  | 107-83-5   | 4.8E+03                                         | n                 | 3.8E+02                          | n                 | 3.8E+04                              | n >S              | 2.8E+05                                          | n                 | 4.5E+05                                | n >S              | —                                   | 4.7E+03                                         | n                 | 1.9E+02                          | n                 | 1.9E+04                              | n >S              | 1.4E+05                                          | n                 | 2.9E+04                                | n >S              | —                                   |
| Pentane, 3-methyl-                  | 96-14-0    | 4.8E+03                                         | n                 | 3.1E+02                          | n                 | 3.1E+04                              | n >S              | 2.8E+05                                          | n                 | 4.7E+05                                | n >S              | —                                   | 4.7E+03                                         | n                 | 1.6E+02                          | n                 | 1.6E+04                              | n >S              | 1.4E+05                                          | n                 | 3.1E+04                                | n >S              | —                                   |
| Pentanediol, 1,5-                   | 111-29-5   | 3.0E+05                                         | n                 | 2.4E+02                          | n                 | 2.4E+04                              | n                 | 1.0E+06                                          | n                 | 1.0E+06                                | n >S              | —                                   | 2.7E+05                                         | n                 | 1.2E+02                          | n                 | 1.2E+04                              | n                 | 1.0E+06                                          | n                 | 9.9E+05                                | n >S              | —                                   |
| Pentanol, 1-                        | 71-41-0    | 2.7E+03                                         | n                 | 2.3E+00                          | n                 | 2.3E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.7E+03                                         | n                 | 1.1E+00                          | n                 | 1.1E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Pentanol, 4-methyl-2-               | 108-11-2   | 2.1E+03                                         | n                 | 1.8E+00                          | n                 | 1.8E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.1E+03                                         | n                 | 8.8E-01                          | n                 | 8.8E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Pentanone, 2-                       | 107-87-9   | 3.3E+03                                         | n                 | 2.2E+00                          | n                 | 2.2E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 3.3E+03                                         | n                 | 1.1E+00                          | n                 | 1.1E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Pentene, 2-                         | 109-68-2   | 4.8E+03                                         | n                 | 4.7E+01                          | n                 | 4.7E+03                              | n                 | 2.8E+05                                          | n                 | 4.5E+05                                | n >S              | —                                   | 4.7E+03                                         | n                 | 2.3E+01                          | n                 | 2.3E+03                              | n                 | 1.4E+05                                          | n                 | 2.9E+04                                | n >S              | —                                   |
| Pentyne, 1-                         | 627-19-0   | 4.8E+03                                         | n                 | 1.3E+01                          | n                 | 1.3E+03                              | n                 | 2.8E+05                                          | n                 | 6.2E+05                                | n >S              | —                                   | 4.7E+03                                         | n                 | 6.3E+00                          | n                 | 6.3E+02                              | n                 | 1.4E+05                                          | n                 | 4.0E+04                                | n >S              | —                                   |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                              | CAS        | 0.5 acre source area                            |   |                                  |      |                                      |      |                                                  |   |                                        |      | 30 acre source area                 |                                                 |   |                                  |      |                                      |      |                                                  |   |                                        |      |                                     |
|----------------------------------------------------------------------------------|------------|-------------------------------------------------|---|----------------------------------|------|--------------------------------------|------|--------------------------------------------------|---|----------------------------------------|------|-------------------------------------|-------------------------------------------------|---|----------------------------------|------|--------------------------------------|------|--------------------------------------------------|---|----------------------------------------|------|-------------------------------------|
|                                                                                  |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) |   | GWSoil <sub>Ing</sub><br>(mg/kg) |      | GWSoil <sub>Class 3</sub><br>(mg/kg) |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) |      | GWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) |   | GWSoil <sub>Ing</sub><br>(mg/kg) |      | GWSoil <sub>Class 3</sub><br>(mg/kg) |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) |      | GWSoil for Secondary MCL<br>(mg/kg) |
| Perchlorate                                                                      | 14797-73-0 | 5.1E+01                                         | n | 1.4E-01                          | n    | 1.4E+01                              | n    | —                                                | — | —                                      | —    | —                                   | 5.1E+01                                         | n | 7.0E-02                          | n    | 7.0E+00                              | n    | —                                                | — | —                                      | —    | —                                   |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | 1.5E+00                                         | n | 5.0E-02                          | n    | 5.0E+00                              | n    | 1.5E+02                                          | n | 1.6E+05                                | n >S | —                                   | 1.5E+00                                         | n | 2.5E-02                          | n    | 2.5E+00                              | n    | 8.0E+01                                          | n | 1.1E+04                                | n    | —                                   |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDa]               | 2058-94-8  | 8.0E-01                                         | n | 1.8E-02                          | n    | 1.8E+00                              | n    | —                                                | — | —                                      | —    | —                                   | 8.0E-01                                         | n | 9.2E-03                          | n    | 9.2E-01                              | n    | —                                                | — | —                                      | —    | —                                   |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                    | 2706-90-3  | 3.3E+01                                         | n | 4.2E-02                          | n    | 4.2E+00                              | n    | —                                                | — | —                                      | —    | —                                   | 3.3E+01                                         | n | 2.1E-02                          | n    | 2.1E+00                              | n    | —                                                | — | —                                      | —    | —                                   |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                    | 307-24-4   | 3.3E+01                                         | n | 6.3E-02                          | n    | 6.3E+00                              | n    | —                                                | — | —                                      | —    | —                                   | 3.3E+01                                         | n | 3.2E-02                          | n    | 3.2E+00                              | n    | —                                                | — | —                                      | —    | —                                   |
| Perfluorododecanoic acid (Dodecanoic acid, tricosaufluoro-) [PFDoA]              | 307-55-1   | 7.9E-01                                         | n | 3.3E-02                          | n    | 3.3E+00                              | n    | 6.9E+01                                          | n | 6.3E+04                                | n >S | —                                   | 7.8E-01                                         | n | 1.7E-02                          | n    | 1.7E+00                              | n    | 3.6E+01                                          | n | 4.1E+03                                | n >S | —                                   |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                  | 335-67-1   | 6.0E-01                                         | n | 3.0E-03                          | n    | 3.0E-01                              | n    | 2.4E+00                                          | n | 9.1E+02                                | n    | —                                   | 4.9E-01                                         | n | 1.5E-03                          | n    | 1.5E-01                              | n    | 1.2E+00                                          | n | 5.9E+01                                | n    | —                                   |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                   | 335-76-2   | 9.9E-01                                         | n | 2.2E-02                          | n    | 2.2E+00                              | n    | 8.6E+01                                          | n | 7.8E+04                                | n >S | —                                   | 9.8E-01                                         | n | 1.1E-02                          | n    | 1.1E+00                              | n    | 4.4E+01                                          | n | 5.0E+03                                | n >S | —                                   |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosaufluoro-) [PFDS]  | 335-77-3   | 8.0E-01                                         | n | 4.0E-02                          | n    | 4.0E+00                              | n    | —                                                | — | —                                      | —    | —                                   | 8.0E-01                                         | n | 2.0E-02                          | n    | 2.0E+00                              | n    | —                                                | — | —                                      | —    | —                                   |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS]    | 355-46-4   | 2.5E-01                                         | n | 2.0E-03                          | n    | 2.0E-01                              | n    | 1.1E+01                                          | n | 6.3E+03                                | n    | —                                   | 2.4E-01                                         | n | 1.0E-03                          | n    | 1.0E-01                              | n    | 5.8E+00                                          | n | 6.2E+02                                | n    | —                                   |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                       | 375-22-4   | 6.1E+01                                         | n | 6.7E-02                          | n    | 6.7E+00                              | n    | 6.8E+02                                          | n | 8.2E+05                                | n    | —                                   | 5.6E+01                                         | n | 3.4E-02                          | n    | 3.4E+00                              | n    | 3.5E+02                                          | n | 3.4E+05                                | n    | —                                   |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]        | 375-73-5   | 8.6E+01                                         | n | 1.1E-01                          | n    | 1.1E+01                              | n    | 1.1E+03                                          | n | 1.0E+06                                | n >S | —                                   | 8.0E+01                                         | n | 5.3E-02                          | n    | 5.3E+00                              | n    | 5.8E+02                                          | n | 7.2E+05                                | n >S | —                                   |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]                 | 375-85-9   | 1.5E+00                                         | n | 4.6E-03                          | n    | 4.6E-01                              | n    | —                                                | — | —                                      | —    | —                                   | 1.5E+00                                         | n | 2.3E-03                          | n    | 2.3E-01                              | n    | —                                                | — | —                                      | —    | —                                   |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]                  | 375-95-1   | 7.6E-01                                         | n | 3.1E-03                          | n    | 3.1E-01                              | n    | 1.7E+01                                          | n | 6.8E+03                                | n >S | —                                   | 7.3E-01                                         | n | 1.5E-03                          | n    | 1.5E-01                              | n    | 8.9E+00                                          | n | 4.4E+02                                | n >S | —                                   |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosaufluoro-) [PFTeDA]     | 376-06-7   | 5.1E-01                                         | n | 1.1E-01                          | n    | 1.1E+01                              | n >S | —                                                | — | —                                      | —    | —                                   | 5.1E-01                                         | n | 5.6E-02                          | n    | 5.6E+00                              | n >S | —                                                | — | —                                      | —    | —                                   |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosaufluoro-) [PFTrDA]         | 72629-94-8 | 6.1E-01                                         | n | 6.1E-02                          | n    | 6.1E+00                              | n >S | —                                                | — | —                                      | —    | —                                   | 6.1E-01                                         | n | 3.1E-02                          | n    | 3.1E+00                              | n >S | —                                                | — | —                                      | —    | —                                   |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA]      | 754-91-6   | 5.8E-02                                         | n | 9.2E-01                          | n    | 9.2E+01                              | n    | 6.3E-02                                          | n | 1.7E-01                                | n    | —                                   | 3.1E-02                                         | n | 4.6E-01                          | n    | 4.6E+01                              | n    | 3.2E-02                                          | n | 1.1E-02                                | n    | —                                   |
| Perylene                                                                         | 198-55-0   | 1.3E+03                                         | n | 7.6E+04                          | n >S | 1.0E+06                              | n >S | —                                                | — | —                                      | —    | —                                   | 1.3E+03                                         | n | 3.8E+04                          | n >S | 1.0E+06                              | n >S | —                                                | — | —                                      | —    | —                                   |
| Phenacetin                                                                       | 62-44-2    | 1.8E+03                                         | c | 1.2E+00                          | c    | 1.2E+02                              | c    | 1.1E+04                                          | c | 1.0E+06                                | c >S | —                                   | 1.5E+03                                         | c | 6.2E-01                          | c    | 6.2E+01                              | c    | 5.6E+03                                          | c | 2.3E+05                                | c >S | —                                   |
| Phenanthrene                                                                     | 85-01-8    | 1.7E+03                                         | n | 4.2E+02                          | n    | 4.2E+04                              | n >S | —                                                | — | —                                      | —    | —                                   | 1.7E+03                                         | n | 2.1E+02                          | n    | 2.1E+04                              | n >S | —                                                | — | —                                      | —    | —                                   |
| Phenanthridine                                                                   | 229-87-8   | 2.0E+02                                         | n | 5.3E+00                          | n    | 5.3E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 2.0E+02                                         | n | 2.6E+00                          | n    | 2.6E+02                              | n    | —                                                | — | —                                      | —    | —                                   |
| Phenol                                                                           | 108-95-2   | 1.8E+03                                         | n | 1.9E+01                          | n    | 1.9E+03                              | n    | 1.9E+03                                          | n | 4.2E+05                                | n >S | —                                   | 9.5E+02                                         | n | 9.6E+00                          | n    | 9.6E+02                              | n    | 1.0E+03                                          | n | 2.7E+04                                | n    | —                                   |
| Phenol, 4-tert-butyl-                                                            | 98-54-4    | 8.0E+03                                         | n | 1.1E+02                          | n    | 1.1E+04                              | n >S | —                                                | — | —                                      | —    | —                                   | 8.0E+03                                         | n | 5.4E+01                          | n    | 5.4E+03                              | n >S | —                                                | — | —                                      | —    | —                                   |
| Phenothiazine                                                                    | 92-84-2    | 6.3E+01                                         | n | 8.0E+00                          | n >S | 8.0E+02                              | n >S | —                                                | — | —                                      | —    | —                                   | 6.3E+01                                         | n | 4.0E+00                          | n >S | 4.0E+02                              | n >S | —                                                | — | —                                      | —    | —                                   |
| Phenyl mercuric acetate                                                          | 62-38-4    | 5.3E+00                                         | n | 1.6E-02                          | n    | 1.6E+00                              | n    | —                                                | — | —                                      | —    | —                                   | 5.3E+00                                         | n | 8.1E-03                          | n    | 8.1E-01                              | n    | —                                                | — | —                                      | —    | —                                   |
| Phenylene diamine, m-                                                            | 108-45-2   | 4.0E+02                                         | n | 2.9E-01                          | n    | 2.9E+01                              | n    | —                                                | — | —                                      | —    | —                                   | 4.0E+02                                         | n | 1.4E-01                          | n    | 1.4E+01                              | n    | —                                                | — | —                                      | —    | —                                   |
| Phenylene diamine, p-                                                            | 106-50-3   | 1.3E+04                                         | n | 9.1E+00                          | n    | 9.1E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 1.3E+04                                         | n | 4.6E+00                          | n    | 4.6E+02                              | n    | —                                                | — | —                                      | —    | —                                   |
| Phorate                                                                          | 298-02-2   | 1.3E+01                                         | n | 1.1E+00                          | n    | 1.1E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 1.3E+01                                         | n | 5.4E-01                          | n    | 5.4E+01                              | n    | —                                                | — | —                                      | —    | —                                   |
| Phosalone                                                                        | 2310-17-0  | 1.3E+02                                         | n | 2.3E+00                          | n    | 2.3E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 1.3E+02                                         | n | 1.2E+00                          | n    | 1.2E+02                              | n    | —                                                | — | —                                      | —    | —                                   |
| Phosdrin (mevinphos)                                                             | 7786-34-7  | 1.7E+00                                         | n | 1.2E-03                          | n    | 1.2E-01                              | n    | —                                                | — | —                                      | —    | —                                   | 1.7E+00                                         | n | 5.9E-04                          | n    | 5.9E-02                              | n    | —                                                | — | —                                      | —    | —                                   |
| Phosmet                                                                          | 732-11-6   | 1.3E+03                                         | n | 4.1E+00                          | n    | 4.1E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 1.3E+03                                         | n | 2.0E+00                          | n    | 2.0E+02                              | n    | —                                                | — | —                                      | —    | —                                   |
| Phosphine                                                                        | 7803-51-2  | 3.8E+00                                         | n | —                                | —    | —                                    | —    | 4.6E+00                                          | n | —                                      | —    | —                                   | 2.1E+00                                         | n | —                                | —    | —                                    | —    | 2.4E+00                                          | n | —                                      | —    | —                                   |
| Phosphorotrihiolic acid, S,S,S-tributyl ester                                    | 78-48-8    | 3.2E+01                                         | n | 4.3E+02                          | c >S | 4.3E+04                              | c >S | —                                                | — | —                                      | —    | —                                   | 3.2E+01                                         | n | 2.2E+02                          | c >S | 2.2E+04                              | c >S | —                                                | — | —                                      | —    | —                                   |
| Phosphorus, total*                                                               | 7723-14-0  | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   |
| Phosphorus, white                                                                | 7723-14-0  | 1.5E+00                                         | n | 2.3E-02                          | n    | 2.3E+00                              | n    | —                                                | — | —                                      | —    | —                                   | 1.5E+00                                         | n | 1.1E-02                          | n    | 1.1E+00                              | n    | —                                                | — | —                                      | —    | —                                   |
| Phthalic anhydride                                                               | 85-44-9    | 3.6E+04                                         | n | 2.5E+02                          | n    | 2.5E+04                              | n    | 5.0E+04                                          | n | 1.0E+06                                | n >S | —                                   | 2.1E+04                                         | n | 1.2E+02                          | n    | 1.2E+04                              | n    | 2.6E+04                                          | n | 1.0E+06                                | n >S | —                                   |
| Picloram                                                                         | 1918-02-1  | 4.7E+03                                         | n | 9.8E-01                          | m    | 9.8E+01                              | m    | —                                                | — | —                                      | —    | —                                   | 4.7E+03                                         | n | 4.9E-01                          | m    | 4.9E+01                              | m    | —                                                | — | —                                      | —    | —                                   |
| Picoline, 2- (2-methylpyridine)                                                  | 109-06-8   | 7.4E+02                                         | n | 5.6E-01                          | n    | 5.6E+01                              | n    | —                                                | — | —                                      | —    | —                                   | 7.4E+02                                         | n | 2.8E-01                          | n    | 2.8E+01                              | n    | —                                                | — | —                                      | —    | —                                   |
| Polybrominated biphenyls (PBBs)                                                  | 67774-32-7 | 9.7E-03                                         | c | 9.0E-03                          | c    | 9.0E-01                              | c    | —                                                | — | —                                      | —    | —                                   | 9.7E-03                                         | c | 4.5E-03                          | c    | 4.5E-01                              | c    | —                                                | — | —                                      | —    | —                                   |
| Polychlorinated biphenyls (PCBs)                                                 | 1336-36-3  | 1.1E+00                                         | n | 1.1E+01                          | m    | 1.1E+03                              | m    | 5.4E+01                                          | c | 6.2E+04                                | c >S | —                                   | 1.1E+00                                         | n | 5.3E+00                          | m    | 5.3E+02                              | m    | 2.8E+01                                          | c | 4.0E+03                                | c >S | —                                   |
| Potassium*                                                                       | 7440-09-7  | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   |
| Primene                                                                          | 68955-53-3 | 3.6E+02                                         | n | 5.4E+01                          | n    | 5.4E+03                              | n    | —                                                | — | —                                      | —    | —                                   | 3.6E+02                                         | n | 2.7E+01                          | n    | 2.7E+03                              | n    | —                                                | — | —                                      | —    | —                                   |
| Prometon (pramitol)                                                              | 1610-18-0  | 1.0E+03                                         | n | 9.6E+00                          | n    | 9.6E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 1.0E+03                                         | n | 4.8E+00                          | n    | 4.8E+02                              | n    | —                                                | — | —                                      | —    | —                                   |
| Prometryn                                                                        | 7287-19-6  | 2.7E+03                                         | n | 9.8E+01                          | n    | 9.8E+03                              | n >S | —                                                | — | —                                      | —    | —                                   | 2.7E+03                                         | n | 4.9E+01                          | n    | 4.9E+03                              | n >S | —                                                | — | —                                      | —    | —                                   |
| Pronamide                                                                        | 23950-58-5 | 5.0E+03                                         | n | 1.8E+01                          | n    | 1.8E+03                              | n >S | —                                                | — | —                                      | —    | —                                   | 5.0E+03                                         | n | 9.1E+00                          | n    | 9.1E+02                              | n >S | —                                                | — | —                                      | —    | —                                   |
| Propanal (propionaldehyde)                                                       | 123-38-6   | 1.0E+02                                         | n | 3.9E-01                          | n    | 3.9E+01                              | n    | 1.2E+02                                          | n | 3.3E+03                                | n    | —                                   | 5.8E+01                                         | n | 2.0E-01                          | n    | 2.0E+01                              | n    | 6.3E+01                                          | n | 2.1E+02                                | n    | —                                   |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS         | 0.5 acre source area                            |   |                                  |      |                                      |      |                                                  |   |                                        |      | 30 acre source area                 |                                                 |   |                                  |      |                                      |      |                                                  |   |                                        |      |                                     |   |
|------------------------------------------|-------------|-------------------------------------------------|---|----------------------------------|------|--------------------------------------|------|--------------------------------------------------|---|----------------------------------------|------|-------------------------------------|-------------------------------------------------|---|----------------------------------|------|--------------------------------------|------|--------------------------------------------------|---|----------------------------------------|------|-------------------------------------|---|
|                                          |             | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) |   | GWSoil <sub>Ing</sub><br>(mg/kg) |      | GWSoil <sub>Class 3</sub><br>(mg/kg) |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) |      | GWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) |   | GWSoil <sub>Ing</sub><br>(mg/kg) |      | GWSoil <sub>Class 3</sub><br>(mg/kg) |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) |      | GWSoil for Secondary MCL<br>(mg/kg) |   |
| Propane, 1-bromo-                        | 106-94-5    | 2.9E+03                                         | n | 3.4E+00                          | n    | 3.4E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 2.9E+03                                         | n | 1.7E+00                          | n    | 1.7E+02                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Propanil                                 | 709-98-8    | 3.3E+02                                         | n | 4.7E+00                          | n    | 4.7E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 3.3E+02                                         | n | 2.3E+00                          | n    | 2.3E+02                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Propanoic acid (propionic acid)          | 79-09-4     | 4.1E+04                                         | n | 2.3E+01                          | n    | 2.3E+03                              | n    | —                                                | — | —                                      | —    | —                                   | 4.1E+04                                         | n | 1.2E+01                          | n    | 1.2E+03                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Propanol, 1-                             | 71-23-8     | 1.6E+05                                         | n | 1.0E+02                          | n    | 1.0E+04                              | n    | —                                                | — | —                                      | —    | —                                   | 1.6E+05                                         | n | 5.0E+01                          | n    | 5.0E+03                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Propargite                               | 2312-35-8   | 1.3E+03                                         | n | 1.1E+02                          | n    | 1.1E+04                              | n >S | —                                                | — | —                                      | —    | —                                   | 1.3E+03                                         | n | 5.5E+01                          | n    | 5.5E+03                              | n >S | —                                                | — | —                                      | —    | —                                   | — |
| Propargyl alcohol                        | 107-19-7    | 1.6E+02                                         | n | 1.0E-01                          | n    | 1.0E+01                              | n    | —                                                | — | —                                      | —    | —                                   | 1.6E+02                                         | n | 5.2E-02                          | n    | 5.2E+00                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Propazine                                | 139-40-2    | 1.1E+02                                         | c | 9.5E-01                          | c    | 9.5E+01                              | c    | —                                                | — | —                                      | —    | —                                   | 1.1E+02                                         | c | 4.7E-01                          | c    | 4.7E+01                              | c    | —                                                | — | —                                      | —    | —                                   | — |
| Propham                                  | 122-42-9    | 1.3E+03                                         | n | 1.9E+00                          | n    | 1.9E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 1.3E+03                                         | n | 9.7E-01                          | n    | 9.7E+01                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Propionitrile (propane nitrile)          | 107-12-0    | 3.3E+01                                         | n | 1.9E-02                          | n    | 1.9E+00                              | n    | —                                                | — | —                                      | —    | —                                   | 3.3E+01                                         | n | 9.7E-03                          | n    | 9.7E-01                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Propyl acetate, n-                       | 109-60-4    | 7.4E+03                                         | n | 5.3E+00                          | n    | 5.3E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 7.4E+03                                         | n | 2.7E+00                          | n    | 2.7E+02                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Propylbenzene, n-                        | 103-65-1    | 2.2E+03                                         | n | 4.5E+01                          | n    | 4.5E+03                              | n >S | 6.3E+03                                          | n | 2.8E+05                                | n >S | —                                   | 1.6E+03                                         | n | 2.2E+01                          | n    | 2.2E+03                              | n >S | 3.3E+03                                          | n | 1.8E+04                                | n >S | —                                   | — |
| Propylene glycol                         | 57-55-6     | 3.7E+02                                         | n | 9.4E+02                          | n    | 9.4E+04                              | n    | 3.7E+02                                          | n | 9.6E+04                                | n    | —                                   | 1.9E+02                                         | n | 4.7E+02                          | n    | 4.7E+04                              | n    | 1.9E+02                                          | n | 6.2E+03                                | n    | —                                   | — |
| Propylene glycol monomethyl ether        | 107-98-2    | 4.6E+04                                         | n | 3.3E+01                          | n    | 3.3E+03                              | n    | 2.3E+05                                          | n | 1.0E+06                                | n >S | —                                   | 3.9E+04                                         | n | 1.7E+01                          | n    | 1.7E+03                              | n    | 1.2E+05                                          | n | 9.7E+05                                | n >S | —                                   | — |
| Propylene oxide                          | 75-56-9     | 2.0E+01                                         | c | 7.5E-03                          | c    | 7.5E-01                              | c    | 9.7E+01                                          | c | 3.1E+03                                | c    | —                                   | 1.7E+01                                         | c | 3.8E-03                          | c    | 3.8E-01                              | c    | 5.0E+01                                          | c | 2.0E+02                                | c    | —                                   | — |
| Propylene tetramer                       | 6842-15-5   | 4.6E+03                                         | n | 2.5E+04                          | n >S | 1.0E+06                              | n >S | 1.5E+04                                          | n | 4.6E+05                                | n >S | —                                   | 3.6E+03                                         | n | 1.3E+04                          | n >S | 1.0E+06                              | n >S | 7.9E+03                                          | n | 2.9E+04                                | n >S | —                                   | — |
| Prothiofos (Tokuthion)                   | 34643-46-4  | 6.6E+00                                         | n | 2.4E+03                          | n    | 2.4E+05                              | n >S | —                                                | — | —                                      | —    | —                                   | 6.6E+00                                         | n | 1.2E+03                          | n    | 1.2E+05                              | n >S | —                                                | — | —                                      | —    | —                                   | — |
| Pyrene                                   | 129-00-0    | 1.7E+03                                         | n | 1.1E+03                          | n >S | 1.1E+05                              | n >S | —                                                | — | —                                      | —    | —                                   | 1.7E+03                                         | n | 5.6E+02                          | n >S | 5.6E+04                              | n >S | —                                                | — | —                                      | —    | —                                   | — |
| Pyridine                                 | 110-86-1    | 8.2E+01                                         | n | 6.9E-02                          | n    | 6.9E+00                              | n    | —                                                | — | —                                      | —    | —                                   | 8.2E+01                                         | n | 3.5E-02                          | n    | 3.5E+00                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Quinoline                                | 91-22-5     | 1.6E+00                                         | c | 7.5E-03                          | c    | 7.5E-01                              | c    | —                                                | — | —                                      | —    | —                                   | 1.6E+00                                         | c | 3.8E-03                          | c    | 3.8E-01                              | c    | —                                                | — | —                                      | —    | —                                   | — |
| Ronnel                                   | 299-84-3    | 2.3E+03                                         | n | 4.2E+02                          | n    | 4.2E+04                              | n >S | —                                                | — | —                                      | —    | —                                   | 2.3E+03                                         | n | 2.1E+02                          | n    | 2.1E+04                              | n >S | —                                                | — | —                                      | —    | —                                   | — |
| Safrole                                  | 94-59-7     | 1.6E+01                                         | c | 1.6E-01                          | c    | 1.6E+01                              | c    | 6.7E+01                                          | c | 7.5E+03                                | c >S | —                                   | 1.3E+01                                         | c | 8.2E-02                          | c    | 8.2E+00                              | c    | 3.4E+01                                          | c | 4.8E+02                                | c    | —                                   | — |
| Selenium                                 | 7782-49-2   | 3.1E+02                                         | n | 2.3E+00                          | m >S | 2.3E+02                              | m >S | —                                                | — | —                                      | —    | —                                   | 3.1E+02                                         | n | 1.1E+00                          | m >S | 1.1E+02                              | m >S | —                                                | — | —                                      | —    | —                                   | — |
| Selenourea                               | 630-10-4    | 4.1E+02                                         | n | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | 4.1E+02                                         | n | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | — |
| Silver                                   | 7440-22-4   | 9.7E+01                                         | n | 4.8E-01                          | n >S | 4.8E+01                              | n >S | —                                                | — | —                                      | —    | 3.9E-01                             | 9.7E+01                                         | n | 2.4E-01                          | n >S | 2.4E+01                              | n >S | —                                                | — | —                                      | —    | 2.0E-01                             | — |
| Simazine                                 | 122-34-9    | 3.9E+01                                         | c | 5.5E-02                          | m    | 5.5E+00                              | m    | —                                                | — | —                                      | —    | —                                   | 3.9E+01                                         | c | 2.8E-02                          | m    | 2.8E+00                              | m    | —                                                | — | —                                      | —    | —                                   | — |
| Sodium*                                  | 7440-23-5   | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | — |
| Sodium hypochlorite                      | 7681-52-9   | 1.5E+04                                         | n | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | 1.4E+04                                         | n | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | — |
| Sodium polyacrylate                      | 9003-04-7   | 1.2E+02                                         | n | 2.4E+01                          | n    | 2.4E+03                              | n    | 1.2E+02                                          | n | 3.0E+04                                | n    | —                                   | 6.2E+01                                         | n | 1.2E+01                          | n    | 1.2E+03                              | n    | 6.2E+01                                          | n | 1.9E+03                                | n    | —                                   | — |
| Strontium                                | 7440-24-6   | 4.4E+04                                         | n | 6.1E+02                          | n    | 6.1E+04                              | n    | —                                                | — | —                                      | —    | —                                   | 4.4E+04                                         | n | 3.1E+02                          | n    | 3.1E+04                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Strychnine                               | 57-24-9     | 2.0E+01                                         | n | 3.7E-02                          | n    | 3.7E+00                              | n    | —                                                | — | —                                      | —    | —                                   | 2.0E+01                                         | n | 1.9E-02                          | n    | 1.9E+00                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Styrene                                  | 100-42-5    | 6.7E+03                                         | n | 3.3E+00                          | m    | 3.3E+02                              | m    | 1.1E+04                                          | n | 4.9E+05                                | n >S | —                                   | 4.3E+03                                         | n | 1.6E+00                          | m    | 1.6E+02                              | m    | 5.8E+03                                          | n | 3.2E+04                                | n >S | —                                   | — |
| Sulfate*                                 | 14808-79-8  | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | — |
| Sulfide*                                 | 18496-25-8  | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | — |
| Sulfolane                                | 126-33-0    | 4.3E+02                                         | n | 6.1E-01                          | n    | 6.1E+01                              | n    | 8.6E+02                                          | n | 2.5E+05                                | n >S | —                                   | 2.9E+02                                         | n | 3.1E-01                          | n    | 3.1E+01                              | n    | 4.4E+02                                          | n | 1.6E+04                                | n >S | —                                   | — |
| Sulfur*                                  | 7704-34-9   | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | —                                               | — | —                                | —    | —                                    | —    | —                                                | — | —                                      | —    | —                                   | — |
| Sulprofos (Bolstar)                      | 35400-43-2  | 2.0E+02                                         | n | 7.5E+03                          | n >S | 7.5E+05                              | n >S | —                                                | — | —                                      | —    | —                                   | 2.0E+02                                         | n | 3.8E+03                          | n >S | 3.8E+05                              | n >S | —                                                | — | —                                      | —    | —                                   | — |
| Tebuconazole                             | 107534-96-3 | 2.0E+03                                         | n | 3.1E+01                          | n    | 3.1E+03                              | n >S | —                                                | — | —                                      | —    | —                                   | 2.0E+03                                         | n | 1.6E+01                          | n    | 1.6E+03                              | n >S | —                                                | — | —                                      | —    | —                                   | — |
| Tebuthiuron                              | 34014-18-1  | 4.7E+03                                         | n | 5.4E+00                          | n    | 5.4E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 4.7E+03                                         | n | 2.7E+00                          | n    | 2.7E+02                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Terbufos                                 | 13071-79-9  | 1.7E+00                                         | n | 3.4E-01                          | n    | 3.4E+01                              | n    | —                                                | — | —                                      | —    | —                                   | 1.7E+00                                         | n | 1.7E-01                          | n    | 1.7E+01                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Tert-amyl ethyl ether (TAEE)             | 919-94-8    | 3.3E+03                                         | n | 9.5E+00                          | n    | 9.5E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 3.3E+03                                         | n | 4.7E+00                          | n    | 4.7E+02                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Tert-amyl-methyl ether (TAME)            | 994-05-8    | 3.3E+03                                         | n | 3.8E+00                          | n    | 3.8E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 3.3E+03                                         | n | 1.9E+00                          | n    | 1.9E+02                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Tert-butyl alcohol (2-methyl-2-propanol) | 75-65-0     | 5.0E+04                                         | n | 3.6E+01                          | n    | 3.6E+03                              | n    | 3.6E+05                                          | n | 1.0E+06                                | n >S | —                                   | 4.4E+04                                         | n | 1.8E+01                          | n    | 1.8E+03                              | n    | 1.9E+05                                          | n | 1.0E+06                                | n >S | —                                   | — |
| Tetrachlorobenzene, 1,2,3,4-             | 634-66-2    | 2.0E+01                                         | n | 1.2E+01                          | n    | 1.2E+03                              | n    | —                                                | — | —                                      | —    | —                                   | 2.0E+01                                         | n | 6.0E+00                          | n    | 6.0E+02                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Tetrachlorobenzene, 1,2,3,5-             | 634-90-2    | 1.3E+01                                         | n | 1.9E+00                          | n    | 1.9E+02                              | n    | —                                                | — | —                                      | —    | —                                   | 1.3E+01                                         | n | 9.4E-01                          | n    | 9.4E+01                              | n    | —                                                | — | —                                      | —    | —                                   | — |
| Tetrachlorobenzene, 1,2,4,5-             | 95-94-3     | 2.0E+01                                         | n | 4.8E-01                          | n    | 4.8E+01                              | n >S | —                                                | — | —                                      | —    | —                                   | 2.0E+01                                         | n | 2.4E-01                          | n    | 2.4E+01                              | n >S | —                                                | — | —                                      | —    | —                                   | — |
| Tetrachloroethane, 1,1,1,2-              | 630-20-6    | 6.5E+01                                         | c | 1.4E+00                          | c    | 1.4E+02                              | c    | 9.1E+01                                          | c | 4.5E+03                                | c    | —                                   | 3.9E+01                                         | c | 7.1E-01                          | c    | 7.1E+01                              | c    | 4.7E+01                                          | c | 2.9E+02                                | c    | —                                   | — |
| Tetrachloroethane, 1,1,2,2-              | 79-34-5     | 3.0E+01                                         | c | 2.3E-02                          | c    | 2.3E+00                              | c    | —                                                | — | —                                      | —    | —                                   | 3.0E+01                                         | c | 1.2E-02                          | c    | 1.2E+00                              | c    | —                                                | — | —                                      | —    | —                                   | — |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                       | CAS        | 0.5 acre source area                            |                   |                                  |                   |                                      |                   |                                                  |                   |                                        |                   | 30 acre source area                 |                                                 |                   |                                  |                   |                                      |                   |                                                  |                   |                                        |                   |                                     |
|-------------------------------------------|------------|-------------------------------------------------|-------------------|----------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------|-------------------------------------------------|-------------------|----------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------|
|                                           |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) |
| Tetrachloroethylene [PCE]                 | 127-18-4   | 7.1E+02                                         | c                 | 5.0E-02                          | m                 | 5.0E+00                              | m                 | 9.4E+02                                          | c                 | 5.0E+03                                | c >S              | —                                   | 4.2E+02                                         | c                 | 2.5E-02                          | m                 | 2.5E+00                              | m                 | 4.8E+02                                          | c                 | 3.2E+02                                | c                 | —                                   |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3  | 4.0E+02                                         | n                 | 1.5E+01                          | n                 | 1.5E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 4.0E+02                                         | n                 | 7.4E+00                          | n                 | 7.4E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2    | 1.8E+02                                         | n                 | 4.5E+00                          | n                 | 4.5E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.8E+02                                         | n                 | 2.2E+00                          | n                 | 2.2E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5   | 2.3E+01                                         | n                 | 2.2E+00                          | n                 | 2.2E+02                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 2.3E+01                                         | n                 | 1.1E+00                          | n                 | 1.1E+02                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Tetrachlorvinphos (Stirophos)             | 22248-79-9 | 2.6E+03                                         | n                 | 2.4E+03                          | n                 | 2.4E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 2.6E+03                                         | n                 | 1.2E+03                          | n                 | 1.2E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Tetradifon                                | 116-29-0   | 1.0E+03                                         | n                 | 8.7E+01                          | n                 | 8.7E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 1.0E+03                                         | n                 | 4.4E+01                          | n                 | 4.4E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5  | 3.3E+01                                         | n                 | 3.9E-01                          | n                 | 3.9E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 3.3E+01                                         | n                 | 1.9E-01                          | n                 | 1.9E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Tetraethyl lead                           | 78-00-2    | 6.7E-03                                         | n                 | 5.0E-04                          | n                 | 5.0E-02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 6.7E-03                                         | n                 | 2.5E-04                          | n                 | 2.5E-02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3   | 7.3E-01                                         | n                 | 9.3E-03                          | n                 | 9.3E-01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 7.3E-01                                         | n                 | 4.6E-03                          | n                 | 4.6E-01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Tetraethylene glycol                      | 112-60-7   | 2.2E+04                                         | n                 | 1.6E+01                          | n                 | 1.6E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.2E+04                                         | n                 | 7.8E+00                          | n                 | 7.8E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Tetrahydrofuran                           | 109-99-9   | 1.5E+02                                         | c                 | 2.5E-01                          | c                 | 2.5E+01                              | c                 | 1.9E+02                                          | c                 | 4.6E+03                                | c                 | —                                   | 8.6E+01                                         | c                 | 1.2E-01                          | c                 | 1.2E+01                              | c                 | 9.7E+01                                          | c                 | 3.0E+02                                | c                 | —                                   |
| Tetrahydropyran                           | 142-68-7   | 1.6E+02                                         | c                 | 2.7E-01                          | c                 | 2.7E+01                              | c                 | 2.0E+02                                          | c                 | 5.9E+03                                | c                 | —                                   | 9.2E+01                                         | c                 | 1.4E-01                          | c                 | 1.4E+01                              | c                 | 1.0E+02                                          | c                 | 3.8E+02                                | c                 | —                                   |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2   | 1.7E+03                                         | n                 | 1.7E+00                          | n                 | 1.7E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 1.7E+03                                         | n                 | 8.6E-01                          | n                 | 8.6E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Thallium                                  | 7440-28-0  | 5.3E+00                                         | n                 | 1.7E+00                          | m                 | 1.7E+02                              | m                 | —                                                | —                 | —                                      | —                 | —                                   | 5.3E+00                                         | n                 | 8.7E-01                          | m                 | 8.7E+01                              | m                 | —                                                | —                 | —                                      | —                 | —                                   |
| Thiofanox                                 | 39196-18-4 | 2.0E+01                                         | n                 | 3.1E-02                          | n                 | 3.1E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.0E+01                                         | n                 | 1.6E-02                          | n                 | 1.6E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Thionazin                                 | 297-97-2   | 4.7E+00                                         | n                 | 1.1E-02                          | n                 | 1.1E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 4.7E+00                                         | n                 | 5.5E-03                          | n                 | 5.5E-01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Thiophanate-methyl                        | 23564-05-8 | 5.3E+03                                         | n                 | 4.5E+00                          | n                 | 4.5E+02                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 5.3E+03                                         | n                 | 2.2E+00                          | n                 | 2.2E+02                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Thiram                                    | 137-26-8   | 3.3E+02                                         | n                 | 3.5E+00                          | n                 | 3.5E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 3.3E+02                                         | n                 | 1.8E+00                          | n                 | 1.8E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Tin                                       | 7440-31-5  | 3.5E+04                                         | n                 | 3.7E+04                          | n >S              | 1.0E+06                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 3.5E+04                                         | n                 | 1.8E+04                          | n >S              | 1.0E+06                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Titanium                                  | 7440-32-6  | 2.2E+05                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   | 2.2E+05                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   |
| Toluene                                   | 108-88-3   | 5.9E+03                                         | n                 | 8.2E+00                          | m                 | 8.2E+02                              | m                 | 6.3E+04                                          | n                 | 5.2E+05                                | n >S              | —                                   | 5.4E+03                                         | n                 | 4.1E+00                          | m                 | 4.1E+02                              | m                 | 3.2E+04                                          | n                 | 3.4E+04                                | n >S              | —                                   |
| Toluene diisocyanate, 2,4,2,6-            | 26471-62-5 | 1.5E+02                                         | n                 | —                                | —                 | —                                    | —                 | 1.5E+02                                          | n                 | 1.7E+05                                | n                 | —                                   | 7.5E+01                                         | n                 | —                                | —                 | —                                    | —                 | 7.5E+01                                          | n                 | 1.1E+04                                | n                 | —                                   |
| Toluenediamine, 2,4-                      | 95-80-7    | 1.5E+00                                         | c                 | 1.5E-02                          | c                 | 1.5E+00                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 1.5E+00                                         | c                 | 7.6E-03                          | c                 | 7.6E-01                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Toluenediamine, 2,6-                      | 823-40-5   | 2.0E+03                                         | n                 | 1.4E+00                          | n                 | 1.4E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.0E+03                                         | n                 | 7.2E-01                          | n                 | 7.2E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Toluidine, o-                             | 95-53-4    | 4.7E+01                                         | c                 | 5.8E-01                          | c                 | 5.8E+01                              | c                 | 1.4E+02                                          | c                 | 2.7E+04                                | c                 | —                                   | 3.5E+01                                         | c                 | 2.9E-01                          | c                 | 2.9E+01                              | c                 | 7.1E+01                                          | c                 | 1.7E+03                                | c                 | —                                   |
| Toluidine, p-                             | 106-49-0   | 7.1E+01                                         | c                 | 8.9E-02                          | c                 | 8.9E+00                              | c                 | —                                                | —                 | —                                      | —                 | —                                   | 7.1E+01                                         | c                 | 4.4E-02                          | c                 | 4.4E+00                              | c                 | —                                                | —                 | —                                      | —                 | —                                   |
| Toxaphene                                 | 8001-35-2  | 1.2E+00                                         | c                 | 1.2E+01                          | m                 | 1.2E+03                              | m                 | 9.6E+02                                          | c                 | 1.0E+06                                | c >S              | —                                   | 1.2E+00                                         | c                 | 5.8E+00                          | m                 | 5.8E+02                              | m                 | 4.9E+02                                          | c                 | 4.4E+05                                | c >S              | —                                   |
| TPH, TX1005, C6-C12                       | TPH-1005-1 | 1.6E+03                                         | n                 | 6.5E+01                          | n                 | 6.5E+03                              | n >S              | 3.1E+03                                          | n                 | 1.2E+05                                | n >S              | —                                   | 1.1E+03                                         | n                 | 3.3E+01                          | n                 | 3.3E+03                              | n >S              | 1.6E+03                                          | n                 | 7.6E+03                                | n >S              | —                                   |
| TPH, TX1005, >C12-C28                     | TPH-1005-2 | 2.3E+03                                         | n                 | 2.0E+02                          | n                 | 2.0E+04                              | n >S              | 1.5E+04                                          | n                 | 1.0E+06                                | n >S              | —                                   | 2.0E+03                                         | n                 | 9.9E+01                          | n                 | 9.9E+03                              | n >S              | 7.8E+03                                          | n                 | 9.8E+04                                | n >S              | —                                   |
| TPH, TX1005, >C12-C35                     | TPH-1005-3 | 2.3E+03                                         | n                 | 2.0E+02                          | n                 | 2.0E+04                              | n >S              | 1.5E+04                                          | n                 | 1.0E+06                                | n >S              | —                                   | 2.0E+03                                         | n                 | 9.9E+01                          | n                 | 9.9E+03                              | n >S              | 7.8E+03                                          | n                 | 9.8E+04                                | n >S              | —                                   |
| TPH, TX1005, >C28-C35                     | TPH-1005-4 | 2.3E+03                                         | n                 | 2.0E+02                          | n                 | 2.0E+04                              | n >S              | 1.5E+04                                          | n                 | 1.0E+06                                | n >S              | —                                   | 2.0E+03                                         | n                 | 9.9E+01                          | n                 | 9.9E+03                              | n >S              | 7.8E+03                                          | n                 | 9.8E+04                                | n >S              | —                                   |
| TP Silvex, 2,4,5-                         | 93-72-1    | 5.3E+02                                         | n                 | 5.3E+00                          | m                 | 5.3E+02                              | m                 | —                                                | —                 | —                                      | —                 | —                                   | 5.3E+02                                         | n                 | 2.6E+00                          | m                 | 2.6E+02                              | m                 | —                                                | —                 | —                                      | —                 | —                                   |
| Triadimenol                               | 55219-65-3 | 2.0E+03                                         | n                 | 8.4E+00                          | n                 | 8.4E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.0E+03                                         | n                 | 4.2E+00                          | n                 | 4.2E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Triallate                                 | 2303-17-5  | 3.2E+02                                         | n                 | 1.9E+01                          | n                 | 1.9E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 3.2E+02                                         | n                 | 9.5E+00                          | n                 | 9.5E+02                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Triaminotrinitrobenzene (TATB)            | 3058-38-6  | 2.0E+02                                         | n                 | 1.5E-01                          | n                 | 1.5E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.0E+02                                         | n                 | 7.7E-02                          | n                 | 7.7E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Tributyltin oxide                         | 56-35-9    | 2.0E+01                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   | 2.0E+01                                         | n                 | —                                | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                   |
| Trichloro-1,2,2-trifluoroethane, 1,1,2-   | 76-13-1    | 7.4E+04                                         | n                 | 8.0E+04                          | n >S              | 1.0E+06                              | n >S              | 7.7E+04                                          | n                 | 1.7E+05                                | n >S              | —                                   | 3.9E+04                                         | n                 | 4.0E+04                          | n >S              | 1.0E+06                              | n >S              | 3.9E+04                                          | n                 | 1.1E+04                                | n                 | —                                   |
| Trichlorobenzene, 1,2,3-                  | 87-61-6    | 1.2E+02                                         | n                 | 2.6E+01                          | n                 | 2.6E+03                              | n                 | 3.0E+02                                          | n                 | 4.8E+04                                | n >S              | —                                   | 8.7E+01                                         | n                 | 1.3E+01                          | n                 | 1.3E+03                              | n                 | 1.6E+02                                          | n                 | 3.1E+03                                | n >S              | —                                   |
| Trichlorobenzene, 1,2,4-                  | 120-82-1   | 1.2E+02                                         | n                 | 4.8E+00                          | m                 | 4.8E+02                              | m                 | 1.5E+02                                          | n                 | 1.1E+04                                | n >S              | —                                   | 7.0E+01                                         | n                 | 2.4E+00                          | m                 | 2.4E+02                              | m                 | 7.8E+01                                          | n                 | 6.9E+02                                | n                 | —                                   |
| Trichlorobenzene, 1,3,5-                  | 108-70-3   | 7.8E+01                                         | n                 | 7.5E+00                          | n                 | 7.5E+02                              | n                 | 1.3E+02                                          | n                 | 1.0E+04                                | n >S              | —                                   | 4.9E+01                                         | n                 | 3.7E+00                          | n                 | 3.7E+02                              | n                 | 6.5E+01                                          | n                 | 6.7E+02                                | n                 | —                                   |
| Trichloroethane, 1,1,1-                   | 71-55-6    | 5.3E+04                                         | n                 | 1.6E+00                          | m                 | 1.6E+02                              | m                 | 7.8E+04                                          | n                 | 3.3E+05                                | n >S              | —                                   | 3.2E+04                                         | n                 | 8.1E-01                          | m                 | 8.1E+01                              | m                 | 4.0E+04                                          | n                 | 2.1E+04                                | n >S              | —                                   |
| Trichloroethane, 1,1,2-                   | 79-00-5    | 1.8E+01                                         | c                 | 2.0E-02                          | m                 | 2.0E+00                              | m                 | 2.2E+01                                          | c                 | 3.2E+02                                | c                 | —                                   | 1.0E+01                                         | c                 | 1.0E-02                          | m                 | 1.0E+00                              | m                 | 1.2E+01                                          | c                 | 2.1E+01                                | c                 | —                                   |
| Trichloroethylene [TCE]                   | 79-01-6    | 1.8E+01                                         | n                 | 3.4E-02                          | m                 | 3.4E+00                              | m                 | 3.1E+01                                          | n                 | 1.6E+02                                | n                 | —                                   | 1.1E+01                                         | n                 | 1.7E-02                          | m                 | 1.7E+00                              | m                 | 1.6E+01                                          | n                 | 1.0E+01                                | n                 | —                                   |
| Trichlorofluoromethane                    | 75-69-4    | 2.5E+04                                         | n                 | 1.3E+02                          | n                 | 1.3E+04                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 2.5E+04                                         | n                 | 6.4E+01                          | n                 | 6.4E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Trichloronate                             | 327-98-0   | 1.4E+02                                         | n                 | 1.2E+02                          | n                 | 1.2E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   | 1.4E+02                                         | n                 | 6.2E+01                          | n                 | 6.2E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                   |
| Trichlorophenol, 2,3,4-                   | 15950-66-0 | 6.7E+03                                         | n                 | 5.9E+01                          | n                 | 5.9E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 6.7E+03                                         | n                 | 3.0E+01                          | n                 | 3.0E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |
| Trichlorophenol, 2,3,5-                   | 933-78-8   | 6.7E+03                                         | n                 | 2.8E+01                          | n                 | 2.8E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   | 6.7E+03                                         | n                 | 1.4E+01                          | n                 | 1.4E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                   |

**Table 1**  
**Tier 1 Residential Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS       | 0.5 acre source area                                              |   |                                                    |      |                                                        |      |                                                                    |   |                                                          |         | 30 acre source area                 |                                                                   |         |                                                    |         |                                                        |      |                                                                    |   |                                                          |      |                                     |   |
|---------------------------------------------------|-----------|-------------------------------------------------------------------|---|----------------------------------------------------|------|--------------------------------------------------------|------|--------------------------------------------------------------------|---|----------------------------------------------------------|---------|-------------------------------------|-------------------------------------------------------------------|---------|----------------------------------------------------|---------|--------------------------------------------------------|------|--------------------------------------------------------------------|---|----------------------------------------------------------|------|-------------------------------------|---|
|                                                   |           | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) note <sup>3</sup> |   | GWSoil <sub>Ing</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil <sub>Class 3</sub><br>(mg/kg) note <sup>3</sup> |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) note <sup>3</sup> |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) note <sup>3</sup> |         | GWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) note <sup>3</sup> |         | GWSoil <sub>Ing</sub><br>(mg/kg) note <sup>3</sup> |         | GWSoil <sub>Class 3</sub><br>(mg/kg) note <sup>3</sup> |      | AirSoil <sub>Inh-V</sub> <sup>4</sup><br>(mg/kg) note <sup>3</sup> |   | AirGW-Soil <sub>Inh-V</sub><br>(mg/kg) note <sup>3</sup> |      | GWSoil for Secondary MCL<br>(mg/kg) |   |
| Trichlorophenol, 2,3,6-                           | 933-75-5  | 5.3E+02                                                           | n | 2.9E+01                                            | n    | 2.9E+03                                                | n >S | —                                                                  | — | —                                                        | —       | —                                   | 5.3E+02                                                           | n       | 1.4E+01                                            | n       | 1.4E+03                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Trichlorophenol, 2,4,5-                           | 95-95-4   | 6.7E+03                                                           | n | 3.4E+01                                            | n    | 3.4E+03                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 6.7E+03                                                           | n       | 1.7E+01                                            | n       | 1.7E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Trichlorophenol, 2,4,6-                           | 88-06-2   | 6.7E+01                                                           | n | 1.7E-01                                            | n    | 1.7E+01                                                | n    | 2.0E+03                                                            | c | 3.5E+05                                                  | c >S    | —                                   | 6.7E+01                                                           | n       | 8.7E-02                                            | n       | 8.7E+00                                                | n    | 1.0E+03                                                            | c | 2.3E+04                                                  | c >S | —                                   | — |
| Trichlorophenol, 3,4,5-                           | 609-19-8  | 6.7E+03                                                           | n | 3.3E+02                                            | n    | 3.3E+04                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 6.7E+03                                                           | n       | 1.6E+02                                            | n       | 1.6E+04                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Trichlorophenoxyacetic acid, 2,4,5-               | 93-76-5   | 6.7E+02                                                           | n | 9.9E-01                                            | n    | 9.9E+01                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 6.7E+02                                                           | n       | 4.9E-01                                            | n       | 4.9E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Trichloropropane, 1,1,2-                          | 598-77-6  | 4.6E+00                                                           | n | 1.5E+00                                            | n    | 1.5E+02                                                | n    | 4.6E+00                                                            | n | 3.2E+01                                                  | n       | —                                   | 2.4E+00                                                           | n       | 7.3E-01                                            | n       | 7.3E+01                                                | n    | 2.4E+00                                                            | n | 2.1E+00                                                  | n    | —                                   | — |
| Trichloropropane, 1,2,3-                          | 96-18-4   | 2.0E-01                                                           | c | 5.3E-04                                            | c    | 5.3E-02                                                | c    | 1.4E+01                                                            | n | 5.7E+02                                                  | n       | —                                   | 2.0E-01                                                           | c       | 2.7E-04                                            | c       | 2.7E-02                                                | c    | 7.2E+00                                                            | n | 3.7E+01                                                  | n    | —                                   | — |
| Triethanolamine                                   | 102-71-6  | 3.0E+03                                                           | n | 9.4E+00                                            | n    | 9.4E+02                                                | n    | 3.9E+03                                                            | n | 1.0E+06                                                  | n       | —                                   | 1.7E+03                                                           | n       | 4.7E+00                                            | n       | 4.7E+02                                                | n    | 2.0E+03                                                            | n | 9.6E+05                                                  | n    | —                                   | — |
| Triethylamine                                     | 121-44-8  | 1.1E+02                                                           | n | —                                                  | —    | —                                                      | —    | 1.1E+02                                                            | n | 1.6E+03                                                  | n       | —                                   | 5.5E+01                                                           | n       | —                                                  | —       | —                                                      | —    | 5.5E+01                                                            | n | 1.0E+02                                                  | n    | —                                   | — |
| Triethylene glycol                                | 112-27-6  | 1.3E+05                                                           | n | 9.4E+01                                            | n    | 9.4E+03                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 1.3E+05                                                           | n       | 4.7E+01                                            | n       | 4.7E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Triethylphosphorothioate, O, O, O-                | 126-68-1  | 5.5E-01                                                           | n | 4.4E-03                                            | n    | 4.4E-01                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 5.5E-01                                                           | n       | 2.2E-03                                            | n       | 2.2E-01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Trifluralin                                       | 1582-09-8 | 2.7E+02                                                           | c | 6.5E+01                                            | c    | 6.5E+03                                                | c >S | —                                                                  | — | —                                                        | —       | —                                   | 2.7E+02                                                           | c       | 3.3E+01                                            | c       | 3.3E+03                                                | c >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Trimethylamine                                    | 75-50-3   | 1.5E+02                                                           | n | —                                                  | —    | —                                                      | —    | 1.5E+02                                                            | n | 4.4E+03                                                  | n       | —                                   | 7.6E+01                                                           | n       | —                                                  | —       | —                                                      | —    | 7.6E+01                                                            | n | 2.8E+02                                                  | n    | —                                   | — |
| Trimethylbenzene, 1,2,3-                          | 526-73-8  | 1.6E+03                                                           | n | 2.1E+01                                            | n    | 2.1E+03                                                | n >S | 3.6E+03                                                            | n | 1.5E+05                                                  | n >S    | —                                   | 1.1E+03                                                           | n       | 1.1E+01                                            | n       | 1.1E+03                                                | n >S | 1.9E+03                                                            | n | 9.4E+03                                                  | n >S | —                                   | — |
| Trimethylbenzene, 1,2,4-                          | 95-63-6   | 1.6E+03                                                           | n | 3.3E+01                                            | n    | 3.3E+03                                                | n >S | 4.0E+03                                                            | n | 1.9E+05                                                  | n >S    | —                                   | 1.2E+03                                                           | n       | 1.6E+01                                            | n       | 1.6E+03                                                | n >S | 2.1E+03                                                            | n | 1.3E+04                                                  | n >S | —                                   | — |
| Trimethylbenzene, 1,3,5-                          | 108-67-8  | 1.5E+03                                                           | n | 3.6E+01                                            | n    | 3.6E+03                                                | n >S | 3.5E+03                                                            | n | 1.6E+05                                                  | n >S    | —                                   | 1.1E+03                                                           | n       | 1.8E+01                                            | n       | 1.8E+03                                                | n >S | 1.8E+03                                                            | n | 1.1E+04                                                  | n >S | —                                   | — |
| Trinitrobenzene, 1,3,5-                           | 99-35-4   | 2.0E+03                                                           | n | 1.8E+00                                            | n    | 1.8E+02                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 2.0E+03                                                           | n       | 9.1E-01                                            | n       | 9.1E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Trinitrophenylmethylnitramine (tetryl; nitramine) | 479-45-8  | 1.5E+02                                                           | n | 5.5E-01                                            | n    | 5.5E+01                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 1.5E+02                                                           | n       | 2.8E-01                                            | n       | 2.8E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Trinitrotoluene, 2,4,6-                           | 118-96-7  | 3.3E+01                                                           | n | 1.7E-01                                            | n    | 1.7E+01                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 3.3E+01                                                           | n       | 8.6E-02                                            | n       | 8.6E+00                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Tungsten (as sodium tungstate dihydride)          | 7440-33-7 | 7.3E+01                                                           | n | 8.1E-01                                            | n    | 8.1E+03                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 7.3E+01                                                           | n       | 4.1E+01                                            | n       | 4.1E+03                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Uranium (soluble salts)                           | 7440-61-1 | 2.2E+02                                                           | n | 1.8E+03                                            | m >S | 1.8E+05                                                | m >S | —                                                                  | — | —                                                        | —       | —                                   | 2.2E+02                                                           | n       | 8.9E+02                                            | m >S    | 8.9E+04                                                | m >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Valeric acid (pentanoic acid)                     | 109-52-4  | 1.3E+02                                                           | n | 2.3E+01                                            | n >S | 2.3E+03                                                | n >S | 1.3E+02                                                            | n | 3.8E+04                                                  | n >S    | —                                   | 6.8E+01                                                           | n       | 1.2E+01                                            | n >S    | 1.2E+03                                                | n >S | 6.8E+01                                                            | n | 2.5E+03                                                  | n >S | —                                   | — |
| Vanadium                                          | 7440-62-2 | 7.6E+01                                                           | n | 8.8E+02                                            | n >S | 8.8E+04                                                | n >S | —                                                                  | — | —                                                        | —       | —                                   | 7.5E+01                                                           | n       | 4.4E+02                                            | n >S    | 4.4E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Vernam                                            | 1929-77-7 | 6.7E+01                                                           | n | 2.7E+00                                            | n    | 2.7E+02                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 6.7E+01                                                           | n       | 1.4E+00                                            | n       | 1.4E+02                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Vinyl acetate                                     | 108-05-4  | 3.0E+03                                                           | n | 5.3E+01                                            | n    | 5.3E+03                                                | n    | 3.1E+03                                                            | n | 3.1E+04                                                  | n       | —                                   | 1.5E+03                                                           | n       | 2.7E+01                                            | n       | 2.7E+03                                                | n    | 1.6E+03                                                            | n | 2.0E+03                                                  | n    | —                                   | — |
| Vinyl chloride                                    | 75-01-4   | 3.7E+00                                                           | c | 2.2E-02                                            | m    | 2.2E+00                                                | m    | 4.3E+01                                                            | c | 4.2E+01                                                  | c       | —                                   | 3.4E+00                                                           | c       | 1.1E-02                                            | m       | 1.1E+00                                                | m    | 2.2E+01                                                            | c | 2.7E+00                                                  | c    | —                                   | — |
| Vinylcyclohexane                                  | 695-12-5  | 4.1E+04                                                           | n | 1.4E+03                                            | n >S | 1.4E+05                                                | n >S | —                                                                  | — | —                                                        | —       | —                                   | 4.1E+04                                                           | n       | 7.1E+02                                            | n >S    | 7.1E+04                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |
| Warfarin                                          | 81-81-2   | 2.0E+01                                                           | n | 2.8E-01                                            | n    | 2.8E+01                                                | n    | —                                                                  | — | —                                                        | —       | —                                   | 2.0E+01                                                           | n       | 1.4E-01                                            | n       | 1.4E+01                                                | n    | —                                                                  | — | —                                                        | —    | —                                   | — |
| Xylene, m-                                        | 108-38-3  | 8.9E+03                                                           | n | 1.1E+02                                            | m    | 1.1E+04                                                | m >S | 9.4E+03                                                            | n | 1.1E+05                                                  | n >S    | —                                   | 4.7E+03                                                           | n       | 5.3E+01                                            | m       | 5.3E+03                                                | m >S | 4.8E+03                                                            | n | 7.2E+03                                                  | n >S | —                                   | — |
| Xylene, o-                                        | 95-47-6   | 4.8E+04                                                           | n | 7.1E+01                                            | m    | 7.1E+03                                                | m >S | 6.8E+04                                                            | n | 1.0E+06                                                  | n >S    | —                                   | 2.9E+04                                                           | n       | 3.5E+01                                            | m       | 3.5E+03                                                | m >S | 3.5E+04                                                            | n | 3.5E+05                                                  | n >S | —                                   | — |
| Xylene, p-                                        | 106-42-3  | 8.9E+03                                                           | n | 1.5E+02                                            | m    | 1.5E+04                                                | m >S | 9.4E+03                                                            | n | 1.4E+05                                                  | n >S    | —                                   | 4.7E+03                                                           | n       | 7.5E+01                                            | m       | 7.5E+03                                                | m >S | 4.8E+03                                                            | n | 9.1E+03                                                  | n >S | —                                   | — |
| Xylenes                                           | 1330-20-7 | 6.0E+03                                                           | n | 1.2E+02                                            | m    | 1.2E+04                                                | m >S | 9.4E+03                                                            | n | 1.3E+05                                                  | n >S    | —                                   | 3.7E+03                                                           | n       | 6.1E+01                                            | m       | 6.1E+03                                                | m >S | 4.8E+03                                                            | n | 8.1E+03                                                  | n >S | —                                   | — |
| Zinc                                              | 7440-66-6 | 9.9E+03                                                           | n | 2.4E+03                                            | n >S | 2.4E+05                                                | n >S | —                                                                  | — | —                                                        | 1.6E+03 | 9.9E+03                             | n                                                                 | 1.2E+03 | n >S                                               | 1.2E+05 | n >S                                                   | —    | —                                                                  | — | —                                                        | —    | 8.0E+02                             |   |
| 6 C aliphatics (TPH) (>53% n-hexane content)      | NA        | 3.3E+03                                                           | n | 1.7E+02                                            | n    | 1.7E+04                                                | n >S | 1.0E+04                                                            | n | 1.2E+04                                                  | n >S    | —                                   | 2.5E+03                                                           | n       | 8.6E+01                                            | n       | 8.6E+03                                                | n >S | 5.3E+03                                                            | n | 8.1E+02                                                  | n    | —                                   | — |
| 6 C aliphatics (TPH) (<53% n-hexane content)      | NA        | 4.8E+03                                                           | n | 1.7E+02                                            | n    | 1.7E+04                                                | n >S | 2.8E+05                                                            | n | 3.4E+05                                                  | n >S    | —                                   | 4.8E+03                                                           | n       | 8.6E+01                                            | n       | 8.6E+03                                                | n >S | 1.5E+05                                                            | n | 2.2E+04                                                  | n >S | —                                   | — |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)   | NA        | 3.3E+03                                                           | n | 4.2E+02                                            | n    | 4.2E+04                                                | n >S | 1.0E+04                                                            | n | 2.0E+04                                                  | n >S    | —                                   | 2.5E+03                                                           | n       | 2.1E+02                                            | n       | 2.1E+04                                                | n >S | 5.3E+03                                                            | n | 1.3E+03                                                  | n >S | —                                   | — |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)   | NA        | 4.8E+03                                                           | n | 4.2E+02                                            | n    | 4.2E+04                                                | n >S | 2.8E+05                                                            | n | 5.6E+05                                                  | n >S    | —                                   | 4.8E+03                                                           | n       | 2.1E+02                                            | n       | 2.1E+04                                                | n >S | 1.5E+05                                                            | n | 3.6E+04                                                  | n >S | —                                   | — |
| >8-10 C aliphatics (TPH)                          | NA        | 4.0E+03                                                           | n | 3.6E+03                                            | n >S | 3.6E+05                                                | n >S | 7.7E+03                                                            | n | 4.8E+04                                                  | n >S    | —                                   | 2.7E+03                                                           | n       | 1.8E+03                                            | n >S    | 1.8E+05                                                | n >S | 3.9E+03                                                            | n | 3.1E+03                                                  | n >S | —                                   | — |
| >10-12 C aliphatics (TPH)                         | NA        | 3.6E+03                                                           | n | 2.5E+04                                            | n >S | 1.0E+06                                                | n >S | 7.7E+03                                                            | n | 2.3E+05                                                  | n >S    | —                                   | 2.5E+03                                                           | n       | 1.3E+04                                            | n >S    | 1.0E+06                                                | n >S | 3.9E+03                                                            | n | 1.5E+04                                                  | n >S | —                                   | — |
| >12-16 C aliphatics (TPH)                         | NA        | 4.3E+03                                                           | n | 4.9E+05                                            | n >S | 1.0E+06                                                | n >S | 1.2E+04                                                            | n | 1.0E+06                                                  | n >S    | —                                   | 3.2E+03                                                           | n       | 2.5E+05                                            | n >S    | 1.0E+06                                                | n >S | 6.2E+03                                                            | n | 6.6E+04                                                  | n >S | —                                   | — |
| >16-21 C aliphatics (TPH)                         | NA        | 1.3E+05                                                           | n | 1.0E+06                                            | n >S | 1.0E+06                                                | n >S | —                                                                  | — | —                                                        | —       | —                                   | 1.3E+05                                                           | n       | 1.0E+06                                            | n >S    | 1.0E+06                                                | n >S | —                                                                  | — | —                                                        | —    | —                                   | — |

**Last Revised: February 6, 2025**

end of worksheet

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   | 30 acre source area                 |                                                 |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   |                                     |
|------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|-------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|-------------------------------------|
|                                          |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>10th-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>10th-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>10th-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>10th-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for Secondary MCL<br>(mg/kg) |
| Acenaphthene                             | 83-32-9    | 3.7E+04                                         | n                 | 7.1E+02                         | n >S              | 7.1E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 3.7E+04                                         | n                 | 3.5E+02                         | n >S              | 3.5E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Acenaphthylene                           | 208-96-8   | 3.7E+04                                         | n                 | 1.2E+03                         | n >S              | 1.2E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 3.7E+04                                         | n                 | 6.1E+02                         | n >S              | 6.1E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Acetaldehyde                             | 75-07-0    | 2.0E+02                                         | n                 | 1.5E+01                         | n                 | 1.5E+03                              | n                 | 2.0E+02                                           | n                 | 6.7E+03                                 | n                 | —                                   | 1.0E+02                                         | n                 | 7.4E+00                         | n                 | 7.4E+02                              | n                 | 1.0E+02                                           | n                 | 4.3E+02                                 | n                 | —                                   |
| Acetate, 2-ethoxyethanol                 | 111-15-9   | 7.8E+03                                         | n                 | 1.6E+01                         | n                 | 1.6E+03                              | n                 | 8.4E+03                                           | n                 | 1.0E+06                                 | n >S              | —                                   | 4.2E+03                                         | n                 | 8.0E+00                         | n                 | 8.0E+02                              | n                 | 4.3E+03                                           | n                 | 8.9E+04                                 | n                 | —                                   |
| Acetate, isoamyl                         | 123-92-2   | 7.4E+04                                         | n                 | 2.6E+01                         | n                 | 2.6E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 7.4E+04                                         | n                 | 1.3E+01                         | n                 | 1.3E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Acetate, isobutyl                        | 110-19-0   | 4.9E+04                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 4.9E+04                                         | n                 | 5.5E+00                         | n                 | 5.5E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Acetate, sec-butyl                       | 105-46-4   | 4.9E+04                                         | n                 | 1.2E+01                         | n                 | 1.2E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 4.9E+04                                         | n                 | 5.9E+00                         | n                 | 5.9E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Acetic acid*                             | 64-19-7    | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 |                                     |
| Acetone (2-propanone)                    | 67-64-1    | 4.4E+05                                         | n                 | 1.3E+02                         | n                 | 1.3E+04                              | n                 | 8.4E+05                                           | n                 | 1.0E+06                                 | n >S              | —                                   | 2.9E+05                                         | n                 | 6.4E+01                         | n                 | 6.4E+03                              | n                 | 4.3E+05                                           | n                 | 9.7E+05                                 | n >S              | —                                   |
| Acetone cyanohydrin                      | 75-86-5    | 1.5E+03                                         | n                 | 4.3E-01                         | n                 | 4.3E+01                              | n                 | 6.1E+03                                           | n                 | 9.3E+05                                 | n                 | —                                   | 1.2E+03                                         | n                 | 2.1E-01                         | n                 | 2.1E+01                              | n                 | 3.1E+03                                           | n                 | 6.0E+04                                 | n                 | —                                   |
| Acetonitrile                             | 75-05-8    | 1.7E+03                                         | n                 | 4.5E+00                         | n                 | 4.5E+02                              | n                 | 1.8E+03                                           | n                 | 8.7E+04                                 | n                 | —                                   | 9.1E+02                                         | n                 | 2.3E+00                         | n                 | 2.3E+02                              | n                 | 9.4E+02                                           | n                 | 5.6E+03                                 | n                 | —                                   |
| Acetophenone                             | 98-86-2    | 6.8E+04                                         | n                 | 2.5E+01                         | n                 | 2.5E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+04                                         | n                 | 1.2E+01                         | n                 | 1.2E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Acetylaminofluorene, 2-                  | 53-96-3    | 4.3E+00                                         | c                 | 1.0E-02                         | c                 | 1.0E+00                              | c                 | 3.1E+01                                           | c                 | 2.0E+04                                 | c >S              | —                                   | 3.8E+00                                         | c                 | 5.1E-03                         | c                 | 5.1E-01                              | c                 | 1.6E+01                                           | c                 | 1.7E+03                                 | c >S              | —                                   |
| Acifluorfen, sodium                      | 62476-59-9 | 8.9E+03                                         | n                 | 6.1E+00                         | n                 | 6.1E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 8.9E+03                                         | n                 | 3.1E+00                         | n                 | 3.1E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Acridine                                 | 260-94-6   | 2.0E+03                                         | n                 | 2.3E+01                         | n                 | 2.3E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 2.0E+03                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Acrolein                                 | 107-02-8   | 1.5E+02                                         | n                 | 7.1E-02                         | n                 | 7.1E+00                              | n                 | 2.1E+02                                           | n                 | 2.6E+04                                 | n                 | —                                   | 9.0E+01                                         | n                 | 3.5E-02                         | n                 | 3.5E+00                              | n                 | 1.1E+02                                           | n                 | 1.7E+03                                 | n                 | —                                   |
| Acrylamide                               | 79-06-1    | 2.1E+01                                         | c                 | 7.9E-03                         | c                 | 7.9E-01                              | c                 | 4.7E+01                                           | c                 | 1.2E+04                                 | c                 | —                                   | 1.5E+01                                         | c                 | 3.9E-03                         | c                 | 3.9E-01                              | c                 | 2.4E+01                                           | c                 | 8.1E+02                                 | c                 | —                                   |
| Acrylic acid                             | 79-10-7    | 1.7E+02                                         | n                 | 7.2E+01                         | n                 | 7.2E+03                              | n                 | 1.7E+02                                           | n                 | 4.1E+04                                 | n                 | —                                   | 8.7E+01                                         | n                 | 3.6E+01                         | n                 | 3.6E+03                              | n                 | 8.7E+01                                           | n                 | 2.7E+03                                 | n                 | —                                   |
| Acrylonitrile                            | 107-13-1   | 7.6E+00                                         | c                 | 7.5E-03                         | c                 | 7.5E-01                              | c                 | 8.8E+00                                           | c                 | 1.9E+02                                 | c                 | —                                   | 4.2E+00                                         | c                 | 3.7E-03                         | c                 | 3.7E-01                              | c                 | 4.6E+00                                           | c                 | 1.2E+01                                 | c                 | —                                   |
| Adipic acid (hexanedioic acid)           | 124-04-9   | 1.0E+06                                         | n                 | 2.8E+02                         | n                 | 2.8E+04                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.0E+06                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Alachlor                                 | 15972-60-8 | 2.4E+02                                         | c                 | 1.9E-02                         | m                 | 1.9E+00                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 2.4E+02                                         | c                 | 9.5E-03                         | m                 | 9.5E-01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Aldicarb                                 | 116-06-3   | 6.8E+02                                         | n                 | 1.8E-02                         | m                 | 1.8E+00                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+02                                         | n                 | 8.9E-03                         | m                 | 8.9E-01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Aldicarb sulfone                         | 1646-88-4  | 6.8E+02                                         | n                 | 1.4E-02                         | m                 | 1.4E+00                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+02                                         | n                 | 6.9E-03                         | m                 | 6.9E-01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Aldrin                                   | 309-00-2   | 1.0E+00                                         | c                 | 2.3E-01                         | c                 | 2.3E+01                              | c                 | 1.4E+01                                           | c                 | 1.4E+04                                 | c >S              | —                                   | 9.7E-01                                         | c                 | 1.2E-01                         | c                 | 1.2E+01                              | c                 | 7.2E+00                                           | c                 | 9.2E+02                                 | c >S              | —                                   |
| Allyl alcohol                            | 107-18-6   | 8.0E+00                                         | n                 | 7.5E-01                         | n                 | 7.5E+01                              | n                 | 8.0E+00                                           | n                 | 8.5E+02                                 | n                 | —                                   | 4.1E+00                                         | n                 | 3.7E-01                         | n                 | 3.7E+01                              | n                 | 4.1E+00                                           | n                 | 5.5E+01                                 | n                 | —                                   |
| Allyl chloride                           | 107-05-1   | 2.1E+01                                         | n                 | 3.0E+00                         | n                 | 3.0E+02                              | n                 | 2.1E+01                                           | n                 | 5.3E+01                                 | n                 | —                                   | 1.1E+01                                         | n                 | 1.5E+00                         | n                 | 1.5E+02                              | n                 | 1.1E+01                                           | n                 | 3.4E+00                                 | n                 | —                                   |
| Aluminum                                 | 7429-90-5  | 6.2E+05                                         | n                 | 5.2E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | 1.4E+03                             | 5.7E+05                                         | n                 | 2.6E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | 7.1E+02                             |
| Ametryn                                  | 834-12-8   | 6.1E+03                                         | n                 | 2.1E+01                         | n                 | 2.1E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.1E+03                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Amino-2,6-dinitrotoluene, 4-             | 19406-51-0 | 3.4E+02                                         | n                 | 6.0E-01                         | n                 | 6.0E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 3.4E+02                                         | n                 | 3.0E-01                         | n                 | 3.0E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Amino-4,6-dinitrotoluene, 2-             | 35572-78-2 | 3.4E+02                                         | n                 | 8.9E-01                         | n                 | 8.9E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 3.4E+02                                         | n                 | 4.5E-01                         | n                 | 4.5E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine) | 92-67-1    | 3.1E+00                                         | c                 | 2.4E-02                         | c                 | 2.4E+00                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   | 3.1E+00                                         | c                 | 1.2E-02                         | c                 | 1.2E+00                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Aminopyridine, 4-                        | 504-24-5   | 1.4E+01                                         | n                 | 2.8E-03                         | n                 | 2.8E-01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+01                                         | n                 | 1.4E-03                         | n                 | 1.4E-01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Ammonia <sup>3</sup>                     | 7664-41-7  | 6.9E+03                                         | n                 | —                               | —                 | —                                    | —                 | 6.9E+03                                           | n                 | 2.5E+04                                 | n                 | 3.1E+00                             | 3.5E+03                                         | n                 | —                               | —                 | —                                    | —                 | 3.5E+03                                           | n                 | 1.6E+03                                 | n                 | 1.6E+00                             |
| Ammonium polyphosphate*                  | 6833-79-9  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Ammonium salts*                          | AMMONIUM   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Aniline                                  | 62-53-3    | 1.8E+02                                         | n                 | 8.2E-01                         | c                 | 8.2E+01                              | c                 | 1.8E+02                                           | n                 | 3.6E+04                                 | n                 | —                                   | 9.3E+01                                         | n                 | 4.1E-01                         | c                 | 4.1E+01                              | c                 | 9.4E+01                                           | n                 | 2.3E+03                                 | n                 | —                                   |
| Anthracene                               | 120-12-7   | 1.9E+05                                         | n                 | 2.1E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 1.9E+05                                         | n                 | 1.0E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Anthraquinone, 9,10-                     | 84-65-1    | 4.9E+02                                         | c                 | 2.5E+00                         | c                 | 2.5E+02                              | c >S              | —                                                 | —                 | —                                       | —                 | —                                   | 4.9E+02                                         | c                 | 1.3E+00                         | c                 | 1.3E+02                              | c >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Antimony                                 | 7440-36-0  | 3.1E+02                                         | n                 | 5.4E+00                         | m >S              | 5.4E+02                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                   | 3.1E+02                                         | n                 | 2.7E+00                         | m >S              | 2.7E+02                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Aramite                                  | 140-57-8   | 7.6E+02                                         | c                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | 7.6E+02                                         | c                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Arsenic                                  | 7440-38-2  | 2.0E+02                                         | c                 | 5.0E+00                         | m >S              | 5.0E+02                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                   | 2.0E+02                                         | c                 | 2.5E+00                         | m >S              | 2.5E+02                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Arsine                                   | 7784-42-1  | 1.1E+00                                         | n                 | —                               | —                 | —                                    | —                 | 1.1E+00                                           | n                 | —                                       | —                 | —                                   | 5.5E-01                                         | n                 | —                               | —                 | —                                    | —                 | 5.5E-01                                           | n                 | —                                       | —                 | —                                   |
| Atrazine                                 | 1912-24-9  | 8.6E+01                                         | c                 | 2.5E-02                         | m                 | 2.5E+00                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 8.6E+01                                         | c                 | 1.2E-02                         | m                 | 1.2E+00                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Azinphos-methyl (guthion)                | 86-50-0    | 1.0E+03                                         | n                 | 1.3E+00                         | n >S              | 1.3E+02                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 1.0E+03                                         | n                 | 6.6E-01                         | n >S              | 6.6E+01                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Azobenzene                               | 103-33-3   | 1.6E+02                                         | c                 | 4.0E+01                         | c                 | 4.0E+03                              | c >S              | 2.3E+03                                           | c                 | 1.0E+06                                 | c >S              | —                                   | 1.5E+02                                         | c                 | 2.0E+01                         | c                 | 2.0E+03                              | c >S              | 1.2E+03                                           | c                 | 1.6E+05                                 | c >S              | —                                   |
| Barium                                   | 7440-39-3  | 1.2E+05                                         | n                 | 4.4E+02                         | m >S              | 4.4E+04                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                   | 1.2E+05                                         | n                 | 2.2E+02                         | m >S              | 2.2E+04                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Bayleton                                 | 43121-43-3 | 2.0E+04                                         | n                 | 2.2E+01                         | n                 | 2.2E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 2.0E+04                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Benefin (benfluralin)                    | 1861-40-1  | 2.0E+05                                         | n                 | 1.5E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 2.0E+05                                         | n                 | 7.3E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Benomyl                                  | 17804-35-2 | 3.4E+04                                         | n                 | 9.1E+00                         | n >S              | 9.1E+02                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 3.4E+04                                         | n                 | 4.6E+00                         | n >S              | 4.6E+02                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Benz-a-anthracene                        | 56-55-3    | 1.7E+02                                         | c                 | 2.9E+02                         | c >S              | 2.9E+04                              | c >S              | 9.2E+03                                           | c                 | 1.0E+06                                 | c >S              | —                                   | 1.7E+02                                         | c                 | 1.5E+02                         | c >S              | 1.5E+04                              | c >S              | 4.7E+03                                           | c                 | 1.0E+06                                 | c >S              | —                                   |
| Benzaldehyde                             | 100-52-7   | 1.0E+05                                         | n                 | 3.1E+01                         | n                 | 3.1E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.0E+05                                         | n                 | 1.6E+01                         | n                 | 1.6E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                        | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   | 30 acre source area                    |                                                 |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   |                                        |
|------------------------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|----------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|----------------------------------------|
|                                                            |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>10th-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>10th-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for Secondary<br>MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>10th-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>10th-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for Secondary<br>MCL<br>(mg/kg) |
| Benzene                                                    | 71-43-2    | 2.4E+02                                         | c                 | 2.6E-02                         | m                 | 2.6E+00                              | m                 | 2.7E+02                                           | c                 | 1.6E+03                                 | c                 | —                                      | 1.3E+02                                         | c                 | 1.3E-02                         | m                 | 1.3E+00                              | m                 | 1.4E+02                                           | c                 | 1.0E+02                                 | c                 | —                                      |
| Benzenedicarbonitrile, 1,3-                                | 626-17-5   | 4.1E+03                                         | n                 | 9.7E-01                         | n                 | 9.7E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      | 4.1E+03                                         | n                 | 4.9E-01                         | n                 | 4.9E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Benzenedicarboxylic acid, 1,2-disodecyl ester              | 26761-40-0 | 2.7E+04                                         | n                 | 1.0E+06                         | n >S              | 1.0E+06                              | n >S              | 1.0E+06                                           | n                 | 1.0E+06                                 | n >S              | —                                      | 2.7E+04                                         | n                 | 1.0E+06                         | n >S              | 1.0E+06                              | n >S              | 1.0E+06                                           | n                 | 1.0E+06                                 | n >S              | —                                      |
| Benzenethiol                                               | 108-98-5   | 1.0E+03                                         | n                 | 2.0E-01                         | n                 | 2.0E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      | 1.0E+03                                         | n                 | 1.0E-01                         | n                 | 1.0E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Benzidine                                                  | 92-87-5    | 4.7E-02                                         | c                 | 2.4E-05                         | c                 | 2.4E-03                              | c                 | 1.1E-01                                           | c                 | 2.3E+01                                 | c                 | —                                      | 3.3E-02                                         | c                 | 1.2E-05                         | c                 | 1.2E-03                              | c                 | 5.4E-02                                           | c                 | 1.9E+00                                 | c                 | —                                      |
| Benzo-a-pyrene                                             | 50-32-8    | 1.7E+01                                         | c                 | 7.6E+00                         | m                 | 7.6E+02                              | m >S              | 8.9E+01                                           | n                 | 1.0E+06                                 | n >S              | —                                      | 1.7E+01                                         | c                 | 3.8E+00                         | m                 | 3.8E+02                              | m >S              | 4.6E+01                                           | n                 | 1.0E+05                                 | n >S              | —                                      |
| Benzo-b-fluoranthene                                       | 205-99-2   | 1.7E+02                                         | c                 | 9.8E+02                         | c >S              | 9.8E+04                              | c >S              | 1.5E+04                                           | c                 | 1.0E+06                                 | c >S              | —                                      | 1.7E+02                                         | c                 | 4.9E+02                         | c >S              | 4.9E+04                              | c >S              | 7.8E+03                                           | c                 | 1.0E+06                                 | c >S              | —                                      |
| Benzo-e-pyrene                                             | 192-97-2   | 1.9E+04                                         | n                 | 3.4E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      | 1.9E+04                                         | n                 | 1.7E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      |
| Benzo-g,h,i-perylene                                       | 191-24-2   | 1.9E+04                                         | n                 | 1.4E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      | 1.9E+04                                         | n                 | 6.9E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      |
| Benzoic acid                                               | 65-85-0    | 1.0E+06                                         | n                 | 5.7E+02                         | n                 | 5.7E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      | 1.0E+06                                         | n                 | 2.8E+02                         | n                 | 2.8E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      |
| Benzo-j-fluoranthene                                       | 205-82-3   | 1.7E+02                                         | c                 | 4.3E+02                         | c >S              | 4.3E+04                              | c >S              | 7.9E+03                                           | c                 | 1.0E+06                                 | c >S              | —                                      | 1.7E+02                                         | c                 | 2.1E+02                         | c >S              | 2.1E+04                              | c >S              | 4.1E+03                                           | c                 | 1.0E+06                                 | c >S              | —                                      |
| Benzo-k-fluoranthene                                       | 207-08-9   | 1.7E+03                                         | c                 | 1.0E+04                         | c >S              | 1.0E+06                              | c >S              | 3.8E+05                                           | c                 | 1.0E+06                                 | c >S              | —                                      | 1.7E+03                                         | c                 | 5.0E+03                         | c >S              | 5.0E+05                              | c >S              | 1.9E+05                                           | c                 | 1.0E+06                                 | c >S              | —                                      |
| Benzophenone                                               | 119-61-9   | 4.6E+03                                         | n                 | 5.1E+01                         | n                 | 5.1E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      | 4.6E+03                                         | n                 | 2.5E+01                         | n                 | 2.5E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      |
| Benztotrichloride                                          | 98-07-7    | 1.5E+00                                         | c                 | 9.5E-03                         | c                 | 9.5E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                      | 1.5E+00                                         | c                 | 4.7E-03                         | c                 | 4.7E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Benzoyle peroxide                                          | 94-36-0    | 3.4E+04                                         | n                 | 1.6E+02                         | n                 | 1.6E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      | 3.4E+04                                         | n                 | 8.1E+01                         | n                 | 8.1E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      |
| Benzyl alcohol                                             | 100-51-6   | 6.8E+04                                         | n                 | 1.7E+01                         | n                 | 1.7E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      | 6.8E+04                                         | n                 | 8.7E+00                         | n                 | 8.7E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Benzyl chloride                                            | 100-44-7   | 4.2E+01                                         | n                 | 1.1E-01                         | c                 | 1.1E+01                              | c                 | 4.3E+01                                           | n                 | 1.3E+03                                 | n                 | —                                      | 2.2E+01                                         | n                 | 5.6E-02                         | c                 | 5.6E+00                              | c                 | 2.2E+01                                           | n                 | 8.4E+01                                 | n                 | —                                      |
| Benzyl dichloride                                          | 98-87-3    | 7.3E+01                                         | n                 | 1.4E-01                         | c                 | 1.4E+01                              | c                 | 7.7E+01                                           | n                 | 3.3E+03                                 | n >S              | —                                      | 3.9E+01                                         | n                 | 7.1E-02                         | c                 | 7.1E+00                              | c                 | 4.0E+01                                           | n                 | 2.1E+02                                 | n                 | —                                      |
| Beryllium                                                  | 7440-41-7  | 2.1E+02                                         | n                 | 1.8E+00                         | m >S              | 1.8E+02                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                      | 1.8E+02                                         | n                 | 9.2E-01                         | m >S              | 9.2E+01                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                      |
| Biphenyl, 1,1'-                                            | 92-52-4    | 8.5E+04                                         | n                 | 7.6E+03                         | n >S              | 7.6E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      | 8.5E+04                                         | n                 | 3.8E+03                         | n >S              | 3.8E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      |
| Biphenyl, 1,1'-, 2-phenoxy-                                | 6738-04-1  | 3.4E+04                                         | n                 | 2.2E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      | 3.4E+04                                         | n                 | 1.1E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      |
| Biquinoline, 2,2'-                                         | 119-91-5   | 2.0E+03                                         | n                 | 8.0E+01                         | n                 | 8.0E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      | 2.0E+03                                         | n                 | 4.0E+01                         | n                 | 4.0E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                      |
| Bis (2-chloroethoxy) methane                               | 111-91-1   | 9.1E+00                                         | c                 | 2.6E-02                         | c                 | 2.6E+00                              | c                 | 1.9E+01                                           | c                 | 1.9E+03                                 | c                 | —                                      | 6.2E+00                                         | c                 | 1.3E-02                         | c                 | 1.3E+00                              | c                 | 9.8E+00                                           | c                 | 1.2E+02                                 | c                 | —                                      |
| Bis (2-chloroethyl) ether                                  | 111-44-4   | 4.9E+00                                         | c                 | 4.7E-03                         | c                 | 4.7E-01                              | c                 | 6.0E+00                                           | c                 | 4.0E+02                                 | c                 | —                                      | 2.8E+00                                         | c                 | 2.4E-03                         | c                 | 2.4E-01                              | c                 | 3.1E+00                                           | c                 | 2.6E+01                                 | c                 | —                                      |
| Bis (2-chloro-1-methylethyl) ether                         | 108-60-1   | 1.5E+02                                         | c                 | 4.3E-01                         | c                 | 4.3E+01                              | c                 | 3.5E+02                                           | c                 | 2.1E+04                                 | c                 | —                                      | 1.1E+02                                         | c                 | 2.1E-01                         | c                 | 2.1E+01                              | c                 | 1.8E+02                                           | c                 | 1.4E+03                                 | c                 | —                                      |
| Bis (2-chloromethyl) ether                                 | 542-88-1   | 9.0E-03                                         | c                 | 1.8E-05                         | c                 | 1.8E-03                              | c                 | 9.7E-03                                           | c                 | 2.8E-01                                 | c                 | —                                      | 4.8E-03                                         | c                 | 9.2E-06                         | c                 | 9.2E-04                              | c                 | 5.0E-03                                           | c                 | 1.8E-02                                 | c                 | —                                      |
| Bis (2-ethyl-hexyl) phthalate                              | 117-81-7   | 5.6E+02                                         | c                 | 1.6E+02                         | m                 | 1.6E+04                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                      | 5.6E+02                                         | c                 | 8.2E+01                         | m                 | 8.2E+03                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                      |
| Bismuth                                                    | 7440-69-9  | 4.1E+05                                         | n                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                      | 4.1E+05                                         | n                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Bisphenol A                                                | 80-05-7    | 3.4E+04                                         | n                 | 8.7E+01                         | n                 | 8.7E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      | 3.4E+04                                         | n                 | 4.4E+01                         | n                 | 4.4E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Boron                                                      | 7440-42-8  | 1.9E+05                                         | n                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                      | 1.9E+05                                         | n                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Bromacil                                                   | 314-40-9   | 6.8E+04                                         | n                 | 5.1E+01                         | n                 | 5.1E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      | 6.8E+04                                         | n                 | 2.6E+01                         | n                 | 2.6E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Bromo-2-chloroethane, 1-                                   | 107-04-0   | 4.1E+04                                         | n                 | 1.0E+01                         | n                 | 1.0E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      | 4.1E+04                                         | n                 | 5.2E+00                         | n                 | 5.2E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Bromobenzene                                               | 108-86-1   | 1.2E+03                                         | n                 | 6.9E+00                         | n                 | 6.9E+02                              | n                 | 1.4E+03                                           | n                 | 3.7E+04                                 | n >S              | —                                      | 6.4E+02                                         | n                 | 3.4E+00                         | n                 | 3.4E+02                              | n                 | 7.0E+02                                           | n                 | 2.4E+03                                 | n >S              | —                                      |
| Bromodichloromethane <sup>8</sup>                          | 75-27-4    | 4.6E+02                                         | c                 | 3.6E-01                         | m                 | 3.6E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                      | 4.6E+02                                         | c                 | 1.8E-01                         | m                 | 1.8E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Bromoform <sup>8</sup>                                     | 75-25-2    | 1.0E+03                                         | c                 | 4.4E-01                         | m                 | 4.4E+01                              | m                 | 1.4E+03                                           | c                 | 4.7E+04                                 | c >S              | —                                      | 6.0E+02                                         | c                 | 2.2E-01                         | m                 | 2.2E+01                              | m                 | 7.2E+02                                           | c                 | 3.1E+03                                 | c                 | —                                      |
| Bromomethane                                               | 74-83-9    | 7.9E+01                                         | n                 | 3.9E-01                         | n                 | 3.9E+01                              | n                 | 8.4E+01                                           | n                 | 1.9E+02                                 | n                 | —                                      | 4.2E+01                                         | n                 | 2.0E-01                         | n                 | 2.0E+01                              | n                 | 4.3E+01                                           | n                 | 1.2E+01                                 | n                 | —                                      |
| Bromophenyl phenylether, 4-                                | 101-55-3   | 1.2E+00                                         | c                 | 7.9E-01                         | c                 | 7.9E+01                              | c                 | 1.6E+01                                           | c                 | 1.5E+04                                 | c >S              | —                                      | 1.1E+00                                         | c                 | 4.0E-01                         | c                 | 4.0E+01                              | c                 | 8.4E+00                                           | c                 | 1.0E+03                                 | c                 | —                                      |
| Butadiene, 1,3-                                            | 106-99-0   | 7.1E-02                                         | n                 | —                               | —                 | —                                    | —                 | 7.1E+02                                           | n                 | 6.9E+02                                 | n                 | —                                      | 3.6E+02                                         | n                 | —                               | —                 | —                                    | —                 | 3.6E+02                                           | n                 | 4.5E+01                                 | n                 | —                                      |
| Butadiene, 2-methyl-1,3- (isoprene)                        | 78-79-5    | 5.3E+04                                         | n                 | 3.3E+01                         | n                 | 3.3E+03                              | n                 | 3.9E+05                                           | n                 | 8.7E+05                                 | n >S              | —                                      | 4.7E+04                                         | n                 | 1.7E+01                         | n                 | 1.7E+03                              | n                 | 2.0E+05                                           | n                 | 5.6E+04                                 | n >S              | —                                      |
| Butanal (butyraldehyde)                                    | 123-72-8   | 2.1E+03                                         | n                 | 9.4E+00                         | n                 | 9.4E+02                              | n                 | 2.1E+03                                           | n                 | 6.0E+04                                 | n                 | —                                      | 1.1E+03                                         | n                 | 4.7E+00                         | n                 | 4.7E+02                              | n                 | 1.1E+03                                           | n                 | 3.9E+03                                 | n                 | —                                      |
| Butane, 2,3-dimethyl-                                      | 79-29-8    | 5.3E+04                                         | n                 | 8.5E+02                         | n                 | 8.5E+04                              | n >S              | 3.9E+05                                           | n                 | 6.4E+05                                 | n >S              | —                                      | 4.7E+04                                         | n                 | 4.2E+02                         | n                 | 4.2E+04                              | n >S              | 2.0E+05                                           | n                 | 4.1E+04                                 | n >S              | —                                      |
| Butanoic acid (butyric acid)                               | 107-92-6   | 1.8E+02                                         | n                 | 7.0E+01                         | n                 | 7.0E+03                              | n                 | 1.8E+02                                           | n                 | 5.1E+04                                 | n                 | —                                      | 9.3E+01                                         | n                 | 3.5E+01                         | n                 | 3.5E+03                              | n                 | 9.3E+01                                           | n                 | 3.3E+03                                 | n                 | —                                      |
| Butanol, 2-                                                | 78-92-2    | 1.0E+06                                         | n                 | 3.1E+02                         | n                 | 3.1E+04                              | n                 | 1.0E+06                                           | n                 | 1.0E+06                                 | n >S              | —                                      | 6.8E+05                                         | n                 | 1.6E+02                         | n                 | 1.6E+04                              | n                 | 1.0E+06                                           | n                 | 1.0E+06                                 | n >S              | —                                      |
| Butanol, 2-methyl-1-                                       | 137-32-6   | 1.0E+04                                         | n                 | 1.8E+00                         | n                 | 1.8E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      | 1.0E+04                                         | n                 | 8.9E-01                         | n                 | 8.9E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Butanol, 2-methyl-2-                                       | 75-85-4    | 1.0E+04                                         | n                 | 1.8E+00                         | n                 | 1.8E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      | 1.0E+04                                         | n                 | 8.8E-01                         | n                 | 8.8E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Butanol, n-                                                | 71-36-3    | 1.0E+05                                         | n                 | 1.6E+01                         | n                 | 1.6E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      | 1.0E+05                                         | n                 | 7.9E+00                         | n                 | 7.9E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                      |
| Butene, 1-                                                 | 106-98-9   | 4.0E+04                                         | n                 | 1.3E+02                         | n                 | 1.3E+04                              | n >S              | 1.1E+05                                           | n                 | 1.2E+05                                 | n >S              | —                                      | 3.0E+04                                         | n                 | 6.6E+01                         | n                 | 6.6E+03                              | n >S              | 5.9E+04                                           | n                 | 8.0E+03                                 | n >S              | —                                      |
| Butene, cis-2-                                             | 590-18-1   | 2.2E+04                                         | n                 | 9.6E+01                         | n                 | 9.6E+03                              | n >S              | 3.4E+04                                           | n                 | 3.9E+04                                 | n >S              | —                                      | 1.4E+04                                         | n                 | 4.8E+01                         | n                 | 4.8E+03                              | n >S              | 1.8E+04                                           | n                 | 2.5E+03                                 | n                 | —                                      |
| Butene, trans-2-                                           | 624-64-6   | 2.2E+04                                         | n                 | 9.6E+01                         | n                 | 9.6E+03                              | n >S              | 3.4E+04                                           | n                 | 3.9E+04                                 | n >S              | —                                      | 1.4E+04                                         | n                 | 4.8E+01                         | n                 | 4.8E+03                              | n >S              | 1.8E+04                                           | n                 | 2.5E+03                                 | n                 | —                                      |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2   | 5.8E+04                                         | n                 | 1.8E+01                         | n                 | 1.8E+03                              | n                 | 4.1E+05                                           | n                 | 1.0E+06                                 | n >S              | —                                      | 5.2E+04                                         | n                 | 8.8E+00                         | n                 | 8.8E+02                              | n                 | 2.1E+05                                           | n                 | 1.0E+06                                 | n >S              | —                                      |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                  |                   |                                        |                   | 30 acre source area                       |                                                 |                   |                                 |                   |                                      |                   |                                                  |                   |                                        |                   |                                           |
|-------------------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------------|
|                                                       |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>inh-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>inh-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) |
| Butyl acetate                                         | 123-86-4   | 6.4E+04                                         | n                 | 3.1E+01                         | n                 | 3.1E+03                              | n                 | 1.2E+05                                          | n                 | 1.0E+06                                | n >S              | —                                         | 4.2E+04                                         | n                 | 1.5E+01                         | n                 | 1.5E+03                              | n                 | 6.0E+04                                          | n                 | 1.9E+05                                | n >S              | —                                         |
| Butyl acrylate                                        | 141-32-2   | 9.2E+03                                         | n                 | 3.1E+00                         | n                 | 3.1E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 9.2E+03                                         | n                 | 1.5E+00                         | n                 | 1.5E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Butyl benzyl phthalate                                | 85-68-7    | 1.0E+04                                         | c                 | 5.9E+02                         | c                 | 5.9E+04                              | c >S              | —                                                | —                 | —                                      | —                 | —                                         | 1.0E+04                                         | c                 | 3.0E+02                         | c                 | 3.0E+04                              | c >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Butyl ether, n- (dibutyl ether)                       | 142-96-1   | 1.0E+05                                         | n                 | 1.3E+02                         | n                 | 1.3E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 1.0E+05                                         | n                 | 6.5E+01                         | n                 | 6.5E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Butyl methacrylate                                    | 97-88-1    | 2.6E+04                                         | n                 | 7.8E+01                         | n                 | 7.8E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 2.6E+04                                         | n                 | 3.9E+01                         | n                 | 3.9E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Butylate                                              | 2008-41-5  | 3.4E+04                                         | n                 | 2.5E+01                         | n                 | 2.5E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 3.4E+04                                         | n                 | 1.3E+01                         | n                 | 1.3E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Butylbenzene, n-                                      | 104-51-8   | 3.4E+04                                         | n                 | 4.5E+02                         | n                 | 4.5E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 3.4E+04                                         | n                 | 2.3E+02                         | n                 | 2.3E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Butylbenzene, sec-                                    | 135-98-8   | 4.1E+04                                         | n                 | 2.5E+02                         | n                 | 2.5E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 4.1E+04                                         | n                 | 1.3E+02                         | n                 | 1.3E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Butylbenzene, tert-                                   | 98-06-6    | 4.1E+04                                         | n                 | 3.0E+02                         | n                 | 3.0E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 4.1E+04                                         | n                 | 1.5E+02                         | n                 | 1.5E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Cacodylic acid                                        | 75-60-5    | 2.0E+03                                         | n                 | 4.4E-01                         | n                 | 4.4E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 2.0E+03                                         | n                 | 2.2E-01                         | n                 | 2.2E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Cadmium                                               | 7440-43-9  | 8.1E+02                                         | n                 | 1.5E+00                         | m >S              | 1.5E+02                              | m >S              | —                                                | —                 | —                                      | —                 | —                                         | 7.7E+02                                         | n                 | 7.5E-01                         | m >S              | 7.5E+01                              | m >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Calcium*                                              | 7440-70-2  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                         | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                         |
| Caprolactam                                           | 105-60-2   | 3.4E+05                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 3.4E+05                                         | n                 | 7.0E+01                         | n                 | 7.0E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Captan                                                | 133-06-2   | 5.5E+03                                         | c                 | 1.5E+02                         | c >S              | 1.5E+04                              | c >S              | —                                                | —                 | —                                      | —                 | —                                         | 5.5E+03                                         | c                 | 7.5E+01                         | c >S              | 7.5E+03                              | c >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Carbaryl                                              | 63-25-2    | 6.8E+04                                         | n                 | 8.2E+01                         | n                 | 8.2E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 6.8E+04                                         | n                 | 4.1E+01                         | n                 | 4.1E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Carbazole                                             | 86-74-8    | 9.5E+02                                         | c                 | 1.0E+01                         | c                 | 1.0E+03                              | c >S              | —                                                | —                 | —                                      | —                 | —                                         | 9.5E+02                                         | c                 | 5.1E+00                         | c                 | 5.1E+02                              | c >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Carbofuran                                            | 1563-66-2  | 3.4E+03                                         | n                 | 1.2E-01                         | m                 | 1.2E+01                              | m                 | —                                                | —                 | —                                      | —                 | —                                         | 3.4E+03                                         | n                 | 6.2E-02                         | m                 | 6.2E+00                              | m                 | —                                                | —                 | —                                      | —                 | —                                         |
| Carbon disulfide                                      | 75-15-0    | 1.3E+04                                         | n                 | 4.1E+01                         | n                 | 4.1E+03                              | n                 | 1.5E+04                                          | n                 | 3.8E+04                                | n >S              | —                                         | 7.2E+03                                         | n                 | 2.0E+01                         | n                 | 2.0E+03                              | n                 | 7.7E+03                                          | n                 | 2.4E+03                                | n                 | —                                         |
| Carbon tetrachloride                                  | 56-23-5    | 1.2E+02                                         | c                 | 6.2E-02                         | m                 | 6.2E+00                              | m                 | 1.7E+02                                          | c                 | 6.8E+02                                | c                 | —                                         | 7.1E+01                                         | c                 | 3.1E-02                         | m                 | 3.1E+00                              | m                 | 8.6E+01                                          | c                 | 4.4E+01                                | c                 | —                                         |
| Carbophenothion                                       | 786-19-6   | 8.9E+03                                         | n                 | 4.4E+03                         | n                 | 4.4E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 8.9E+03                                         | n                 | 2.2E+03                         | n                 | 2.2E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Carbosulfan                                           | 55285-14-8 | 6.8E+03                                         | n                 | 7.5E+02                         | n >S              | 7.5E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 6.8E+03                                         | n                 | 3.8E+02                         | n >S              | 3.8E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Carboxin                                              | 5234-68-4  | 6.8E+04                                         | n                 | 2.6E+02                         | n                 | 2.6E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 6.8E+04                                         | n                 | 1.3E+02                         | n                 | 1.3E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Chloral                                               | 75-87-6    | 1.0E+05                                         | n                 | 1.6E+01                         | n                 | 1.6E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 1.0E+05                                         | n                 | 7.9E+00                         | n                 | 7.9E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)    | 302-17-0   | 6.8E+04                                         | n                 | 1.6E+01                         | n                 | 1.6E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 6.8E+04                                         | n                 | 7.8E+00                         | n                 | 7.8E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid) | 133-90-4   | 1.0E+04                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 1.0E+04                                         | n                 | 5.6E+00                         | n                 | 5.6E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Chlordane (technical)                                 | 12789-03-6 | 6.6E+01                                         | c                 | 9.6E+00                         | m                 | 9.6E+02                              | m >S              | 2.1E+03                                          | c                 | 1.0E+06                                | c >S              | —                                         | 6.4E+01                                         | c                 | 4.8E+00                         | m                 | 4.8E+02                              | m >S              | 1.1E+03                                          | c                 | 4.0E+05                                | c >S              | —                                         |
| Chlordane, cis- (alpha chlordane)                     | 5103-71-9  | 5.4E+01                                         | c                 | 1.7E+03                         | c                 | 1.7E+05                              | c >S              | 6.9E+03                                          | c                 | 1.0E+06                                | c >S              | —                                         | 5.4E+01                                         | c                 | 8.3E+02                         | c                 | 8.3E+04                              | c >S              | 3.5E+03                                          | c                 | 1.0E+06                                | c >S              | —                                         |
| Chlordane, trans- (gamma chlordane)                   | 5103-74-2  | 5.3E+01                                         | c                 | 9.2E+01                         | c                 | 9.2E+03                              | c >S              | 1.6E+03                                          | c                 | 1.0E+06                                | c >S              | —                                         | 5.1E+01                                         | c                 | 4.6E+01                         | c                 | 4.6E+03                              | c >S              | 8.4E+02                                          | c                 | 2.6E+05                                | c >S              | —                                         |
| Chlorfenvinphos                                       | 470-90-6   | 3.9E+01                                         | n                 | 2.7E+00                         | n                 | 2.7E+02                              | n                 | 4.3E+01                                          | n                 | —                                      | —                 | —                                         | 2.1E+01                                         | n                 | 1.4E+00                         | n                 | 1.4E+02                              | n                 | 2.2E+01                                          | n                 | —                                      | —                 | —                                         |
| Chloride*                                             | 16887-00-6 | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                         | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                | —                 | —                                      | —                 | —                                         |
| Chlorine                                              | 7782-50-5  | 1.9E+02                                         | n                 | —                               | —                 | —                                    | —                 | 1.9E+02                                          | n                 | —                                      | —                 | —                                         | 9.6E+01                                         | n                 | —                               | —                 | —                                    | —                 | 9.6E+01                                          | n                 | —                                      | —                 | —                                         |
| Chloro-1,3-butadiene, 2-                              | 126-99-8   | 2.0E+00                                         | c                 | —                               | —                 | —                                    | —                 | 2.0E+00                                          | c                 | 4.4E+00                                | c                 | —                                         | 1.0E+00                                         | c                 | —                               | —                 | —                                    | —                 | 1.0E+00                                          | c                 | 2.8E-01                                | c                 | —                                         |
| Chloro-2-propanol, 1-                                 | 127-00-4   | 2.0E+04                                         | n                 | 3.2E+00                         | n                 | 3.2E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 2.0E+04                                         | n                 | 1.6E+00                         | n                 | 1.6E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Chloro-3-methylphenol, 4-                             | 59-50-7    | 3.4E+03                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 3.4E+03                                         | n                 | 6.8E+00                         | n                 | 6.8E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Chloroaniline, p-                                     | 106-47-8   | 9.5E+01                                         | c                 | 4.7E-02                         | c                 | 4.7E+00                              | c                 | —                                                | —                 | —                                      | —                 | —                                         | 9.5E+01                                         | c                 | 2.3E-02                         | c                 | 2.3E+00                              | c                 | —                                                | —                 | —                                      | —                 | —                                         |
| Chlorobenzene                                         | 108-90-7   | 1.0E+03                                         | n                 | 1.1E+00                         | m                 | 1.1E+02                              | m                 | 1.1E+03                                          | n                 | 1.8E+04                                | n >S              | —                                         | 5.4E+02                                         | n                 | 5.5E-01                         | m                 | 5.5E+01                              | m                 | 5.5E+02                                          | n                 | 1.1E+03                                | n                 | —                                         |
| Chlorobenzilate                                       | 510-15-6   | 6.3E+01                                         | c                 | 2.6E-01                         | c                 | 2.6E+01                              | c                 | 5.9E+02                                          | c                 | 4.0E+05                                | c >S              | —                                         | 5.7E+01                                         | c                 | 1.3E-01                         | c                 | 1.3E+01                              | c                 | 3.0E+02                                          | c                 | 2.6E+04                                | c >S              | —                                         |
| Chlorobromomethane (bromochloromethane)               | 74-97-5    | 4.1E+04                                         | n                 | 9.1E+00                         | n                 | 9.1E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 4.1E+04                                         | n                 | 4.5E+00                         | n                 | 4.5E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Chlorodifluoromethane                                 | 75-45-6    | 1.0E+06                                         | n                 | —                               | —                 | —                                    | —                 | 1.0E+06                                          | n                 | 1.0E+06                                | n >S              | —                                         | 5.5E+05                                         | n                 | —                               | —                 | —                                    | —                 | 5.5E+05                                          | n                 | 8.1E+04                                | n >S              | —                                         |
| Chloroethane (ethyl chloride)                         | 75-00-3    | 1.4E+05                                         | n                 | 9.2E+01                         | n                 | 9.2E+03                              | n                 | 2.1E+05                                          | n                 | 5.1E+05                                | n >S              | —                                         | 8.7E+04                                         | n                 | 4.6E+01                         | n                 | 4.6E+03                              | n                 | 1.1E+05                                          | n                 | 3.3E+04                                | n >S              | —                                         |
| Chloroethanol, 2-                                     | 107-07-3   | 2.0E+04                                         | n                 | 2.9E+00                         | n                 | 2.9E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 2.0E+04                                         | n                 | 1.4E+00                         | n                 | 1.4E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether)     | 110-75-8   | 6.4E+00                                         | n                 | 6.5E-03                         | c                 | 6.5E-01                              | c                 | 6.4E+00                                          | n                 | 9.5E+01                                | n                 | —                                         | 3.3E+00                                         | n                 | 3.2E-03                         | c                 | 3.2E-01                              | c                 | 3.3E+00                                          | n                 | 6.2E+00                                | n                 | —                                         |
| Chloroform <sup>8</sup>                               | 67-66-3    | 2.6E+01                                         | c                 | 3.3E-01                         | m                 | 3.3E+01                              | m                 | 2.6E+01                                          | c                 | 1.4E+02                                | c                 | —                                         | 1.3E+01                                         | c                 | 1.7E-01                         | m                 | 1.7E+01                              | m                 | 1.3E+01                                          | c                 | 9.0E+00                                | c                 | —                                         |
| Chlorohexane, 1-                                      | 544-10-5   | 1.4E+04                                         | n                 | 1.2E+02                         | n                 | 1.2E+04                              | n >S              | 2.1E+04                                          | n                 | 4.1E+05                                | n >S              | —                                         | 8.7E+03                                         | n                 | 5.9E+01                         | n                 | 5.9E+03                              | n >S              | 1.1E+04                                          | n                 | 2.6E+04                                | n >S              | —                                         |
| Chloromethane (methyl chloride)                       | 74-87-3    | 2.9E+02                                         | c                 | 9.1E-01                         | c                 | 9.1E+01                              | c                 | 3.3E+02                                          | c                 | 3.5E+02                                | c                 | —                                         | 1.6E+02                                         | c                 | 4.5E-01                         | c                 | 4.5E+01                              | c                 | 1.7E+02                                          | c                 | 2.3E+01                                | c                 | —                                         |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-)     | 90-13-1    | 5.0E+04                                         | n                 | 2.2E+03                         | n                 | 2.2E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 5.0E+04                                         | n                 | 1.1E+03                         | n                 | 1.1E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Chloronaphthalene, 2- (chloronaphthalene, beta)       | 91-58-7    | 5.0E+04                                         | n                 | 2.0E+03                         | n                 | 2.0E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 5.0E+04                                         | n                 | 1.0E+03                         | n                 | 1.0E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)      | 100-00-5   | 7.8E+01                                         | n                 | 4.6E-01                         | n                 | 4.6E+01                              | n                 | 8.8E+01                                          | n                 | 6.7E+03                                | n >S              | —                                         | 4.2E+01                                         | n                 | 2.3E-01                         | n                 | 2.3E+01                              | n                 | 4.5E+01                                          | n                 | 4.3E+02                                | n                 | —                                         |
| Chlorophenol, 2-                                      | 95-57-8    | 5.1E+03                                         | n                 | 4.9E+00                         | n                 | 4.9E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 5.1E+03                                         | n                 | 2.4E+00                         | n                 | 2.4E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Chlorophenol, 3-                                      | 108-43-0   | 3.4E+03                                         | n                 | 2.3E+00                         | n                 | 2.3E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 3.4E+03                                         | n                 | 1.2E+00                         | n                 | 1.2E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   | 30 acre source area                       |                                                 |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   |                                           |         |
|----------------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|-------------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|-------------------------------------------|---------|
|                                                    |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>mg-h-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>mg-h-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>mg-h-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>mg-h-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) |         |
| Chlorophenol, 4-                                   | 106-48-9   | 3.4E+03                                         | n                 | 2.5E+00                         | n                 | 2.5E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 3.4E+03                                         | n                 | 1.2E+00                         | n                 | 1.2E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Chlorophenyl phenylether, 4-                       | 7005-72-3  | 9.8E-01                                         | c                 | 7.2E-02                         | c                 | 7.2E+00                              | c                 | 4.2E+00                                           | c                 | 1.1E+03                                 | c >S              | —                                         | 8.0E-01                                         | c                 | 3.6E-02                         | c                 | 3.6E+00                              | c                 | 2.2E+00                                           | c                 | 7.0E+01                                 | c                 | —                                         | —       |
| Chloropropane, 2-                                  | 75-29-6    | 2.0E+03                                         | n                 | 1.6E+01                         | n                 | 1.6E+03                              | n                 | 2.1E+03                                           | n                 | 4.8E+03                                 | n                 | —                                         | 1.1E+03                                         | n                 | 8.1E+00                         | n                 | 8.1E+02                              | n                 | 1.1E+03                                           | n                 | 3.1E+02                                 | n                 | —                                         | —       |
| Chlorothalonil                                     | 1897-45-6  | 1.7E+03                                         | c                 | 1.8E+01                         | c                 | 1.8E+03                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.7E+03                                         | c                 | 9.1E+00                         | c                 | 9.1E+02                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Chlorotoluene, o- (2-chlorotoluene)                | 95-49-8    | 7.8E+03                                         | n                 | 2.7E+01                         | n                 | 2.7E+03                              | n                 | 1.8E+04                                           | n                 | 6.1E+05                                 | n >S              | —                                         | 5.6E+03                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | 9.5E+03                                           | n                 | 4.0E+04                                 | n >S              | —                                         | —       |
| Chlorotoluene, p- (4-chlorotoluene)                | 106-43-4   | 2.0E+04                                         | n                 | 3.2E+01                         | n                 | 3.2E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 2.0E+04                                         | n                 | 1.6E+01                         | n                 | 1.6E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Chlorpyrifos                                       | 2921-88-2  | 2.0E+03                                         | n                 | 4.4E+01                         | n                 | 4.4E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 2.0E+03                                         | n                 | 2.2E+01                         | n                 | 2.2E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Chromium (III)                                     | 16065-83-1 | 1.2E+05                                         | n                 | 2.4E+03                         | m >S              | 2.4E+05                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                         | 7.5E+04                                         | n                 | 1.2E+03                         | m >S              | 1.2E+05                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Chromium (total)                                   | 7440-47-3  | 1.2E+05                                         | n                 | 2.4E+03                         | m >S              | 2.4E+05                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                         | 7.5E+04                                         | n                 | 1.2E+03                         | m >S              | 1.2E+05                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Chromium (VI)                                      | 18540-29-9 | 1.0E+03                                         | n                 | 2.8E+01                         | m >S              | 2.8E+03                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                         | 1.0E+03                                         | n                 | 1.4E+01                         | m >S              | 1.4E+03                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Chrysene                                           | 218-01-9   | 1.7E+04                                         | c                 | 2.5E+04                         | c >S              | 1.0E+06                              | c >S              | 1.0E+06                                           | c                 | 1.0E+06                                 | c >S              | —                                         | 1.7E+04                                         | c                 | 1.3E+04                         | c >S              | 1.0E+06                              | c >S              | 7.5E+05                                           | c                 | 1.0E+06                                 | c >S              | —                                         | —       |
| Cobalt                                             | 7440-48-4  | 6.3E+03                                         | c                 | 6.6E+02                         | n >S              | 6.6E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 3.3E+03                                         | c                 | 3.3E+02                         | n >S              | 3.3E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Copolymer acrylamide                               | 69418-26-4 | 1.4E+02                                         | n                 | 2.8E-02                         | n                 | 2.8E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.4E+02                                         | n                 | 1.4E-02                         | n                 | 1.4E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Copper                                             | 7440-50-8  | 9.4E+04                                         | n                 | 1.0E+03                         | e >S              | 1.0E+05                              | e >S              | —                                                 | —                 | —                                       | —                 | 8.0E+02                                   | 9.4E+04                                         | n                 | 5.2E+02                         | e >S              | 5.2E+04                              | e >S              | —                                                 | —                 | —                                       | —                 | —                                         | 4.0E+02 |
| Coronene                                           | 191-07-1   | 1.4E+03                                         | n                 | 1.7E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 1.4E+03                                         | n                 | 8.4E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Coumaphos                                          | 56-72-4    | 4.8E+03                                         | n                 | 3.3E+02                         | n >S              | 3.3E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 4.8E+03                                         | n                 | 1.6E+02                         | n >S              | 1.6E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cresol                                             | 1319-77-3  | 3.4E+04                                         | n                 | 2.0E+01                         | n                 | 2.0E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 3.4E+04                                         | n                 | 9.9E+00                         | n                 | 9.9E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cresol, m- (3-methylphenol)                        | 108-39-4   | 3.4E+04                                         | n                 | 2.0E+01                         | n                 | 2.0E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 3.4E+04                                         | n                 | 9.9E+00                         | n                 | 9.9E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cresol, o- (2-methylphenol)                        | 95-48-7    | 3.4E+04                                         | n                 | 2.1E+01                         | n                 | 2.1E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 3.4E+04                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cresol, p- (4-methylphenol)                        | 106-44-5   | 3.4E+03                                         | n                 | 1.9E+00                         | n                 | 1.9E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 3.4E+03                                         | n                 | 9.4E-01                         | n                 | 9.4E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Crotonaldehyde                                     | 123-73-9   | 1.5E+01                                         | c                 | 2.1E-03                         | c                 | 2.1E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.5E+01                                         | c                 | 1.1E-03                         | c                 | 1.1E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cumene (isopropylbenzene)                          | 98-82-8    | 1.1E+04                                         | n                 | 1.0E+03                         | n                 | 1.0E+05                              | n >S              | 1.3E+04                                           | n                 | 8.7E+05                                 | n >S              | —                                         | 6.3E+03                                         | n                 | 5.2E+02                         | n                 | 5.2E+04                              | n >S              | 6.7E+03                                           | n                 | 5.7E+04                                 | n >S              | —                                         | —       |
| Cyanazine                                          | 21725-46-2 | 2.3E+01                                         | c                 | 9.4E-03                         | c                 | 9.4E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | 2.3E+01                                         | c                 | 4.7E-03                         | c                 | 4.7E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cyanide                                            | 57-12-5    | 3.7E+02                                         | n                 | 4.0E+01                         | m                 | 4.0E+03                              | m                 | 1.0E+03                                           | n                 | —                                       | —                 | —                                         | 2.8E+02                                         | n                 | 2.0E+01                         | m                 | 2.0E+03                              | m                 | 5.2E+02                                           | n                 | —                                       | —                 | —                                         | —       |
| Cyanogen                                           | 460-19-5   | 1.7E+01                                         | n                 | 1.8E-01                         | n                 | 1.8E+01                              | n                 | 1.7E+01                                           | n                 | 2.5E+01                                 | n                 | —                                         | 8.8E+00                                         | n                 | 9.1E-02                         | n                 | 9.1E+00                              | n                 | 8.8E+00                                           | n                 | 1.6E+00                                 | n                 | —                                         | —       |
| Cycloate                                           | 1134-23-2  | 3.7E+04                                         | n                 | 4.5E+02                         | n                 | 4.5E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 3.7E+04                                         | n                 | 2.3E+02                         | n                 | 2.3E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cyclohexane                                        | 110-82-7   | 1.3E+05                                         | n                 | 1.8E+04                         | n >S              | 1.0E+06                              | n >S              | 1.3E+05                                           | n                 | 4.0E+05                                 | n >S              | —                                         | 6.5E+04                                         | n                 | 8.8E+03                         | n >S              | 8.8E+05                              | n >S              | 6.6E+04                                           | n                 | 2.6E+04                                 | n >S              | —                                         | —       |
| Cyclohexanol                                       | 108-93-0   | 1.0E+06                                         | n                 | 8.8E+02                         | n >S              | 8.8E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 1.0E+06                                         | n                 | 4.4E+02                         | n >S              | 4.4E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cyclohexanone                                      | 108-94-1   | 4.9E+04                                         | n                 | 7.8E+02                         | n                 | 7.8E+04                              | n >S              | 4.9E+04                                           | n                 | 1.0E+06                                 | n >S              | —                                         | 2.5E+04                                         | n                 | 3.9E+02                         | n                 | 3.9E+04                              | n >S              | 2.5E+04                                           | n                 | 2.7E+05                                 | n >S              | —                                         | —       |
| Cyclohexene, 1-methanol-3-                         | 1679-51-2  | 1.4E+04                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.4E+04                                         | n                 | 5.6E+00                         | n                 | 5.6E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cyclohexene, 4-vinyl-1-                            | 100-40-3   | 5.4E+03                                         | n                 | 9.1E+01                         | n                 | 9.1E+03                              | n >S              | 7.1E+03                                           | n                 | 8.7E+04                                 | n >S              | —                                         | 3.1E+03                                         | n                 | 4.6E+01                         | n                 | 4.6E+03                              | n >S              | 3.6E+03                                           | n                 | 5.6E+03                                 | n >S              | —                                         | —       |
| Cyclopentane                                       | 287-92-3   | 5.5E+04                                         | n                 | 8.4E+01                         | n                 | 8.4E+03                              | n >S              | 5.2E+05                                           | n                 | 9.9E+05                                 | n >S              | —                                         | 5.0E+04                                         | n                 | 4.2E+01                         | n                 | 4.2E+03                              | n >S              | 2.7E+05                                           | n                 | 6.4E+04                                 | n >S              | —                                         | —       |
| Cyclopentane, methyl-                              | 96-37-7    | 1.8E+04                                         | n                 | 4.1E+02                         | n                 | 4.1E+04                              | n >S              | 2.1E+04                                           | n                 | 5.3E+04                                 | n >S              | —                                         | 1.0E+04                                         | n                 | 2.0E+02                         | n                 | 2.0E+04                              | n >S              | 1.1E+04                                           | n                 | 3.4E+03                                 | n >S              | —                                         | —       |
| Cyclopentene                                       | 142-29-0   | 1.0E+06                                         | n                 | 3.2E+03                         | n                 | 3.2E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 1.0E+06                                         | n                 | 1.6E+03                         | n                 | 1.6E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cyclotetramethylenetetranitramine (HMX)            | 2691-41-0  | 1.2E+04                                         | n                 | 7.0E+00                         | n                 | 7.0E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.2E+04                                         | n                 | 3.5E+00                         | n                 | 3.5E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cyclotrimethylenetrinitramine (RDX)                | 121-82-4   | 2.4E+02                                         | c                 | 1.1E-01                         | c                 | 1.1E+01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | 2.4E+02                                         | c                 | 5.7E-02                         | c                 | 5.7E+00                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cymene (isopropyltoluene)                          | 99-87-6    | 1.0E+05                                         | n                 | 6.9E+02                         | n                 | 6.9E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 1.0E+05                                         | n                 | 3.5E+02                         | n                 | 3.5E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Cymoxanil                                          | 57966-95-7 | 8.9E+03                                         | n                 | 1.8E+00                         | n                 | 1.8E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 8.9E+03                                         | n                 | 9.1E-01                         | n                 | 9.1E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Dacthal (DCPA)                                     | 1861-32-1  | 6.8E+03                                         | n                 | 1.4E+03                         | n >S              | 1.4E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 6.8E+03                                         | n                 | 6.8E+02                         | n >S              | 6.8E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)  | 75-99-0    | 2.0E+04                                         | n                 | 5.8E-01                         | m                 | 5.8E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                         | 2.0E+04                                         | n                 | 2.9E-01                         | m                 | 2.9E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| DDD                                                | 72-54-8    | 1.0E+02                                         | c                 | 2.9E+01                         | c                 | 2.9E+03                              | c >S              | —                                                 | —                 | —                                       | —                 | —                                         | 1.0E+02                                         | c                 | 1.5E+01                         | c                 | 1.5E+03                              | c >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| DDE                                                | 72-55-9    | 7.3E+01                                         | c                 | 2.6E+01                         | c                 | 2.6E+03                              | c >S              | —                                                 | —                 | —                                       | —                 | —                                         | 7.3E+01                                         | c                 | 1.3E+01                         | c                 | 1.3E+03                              | c >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| DDT                                                | 50-29-3    | 7.1E+01                                         | c                 | 3.3E+01                         | c >S              | 3.3E+03                              | c >S              | 2.0E+03                                           | c                 | 1.0E+06                                 | c >S              | —                                         | 6.8E+01                                         | c                 | 1.7E+01                         | c >S              | 1.7E+03                              | c >S              | 1.0E+03                                           | c                 | 3.7E+05                                 | c >S              | —                                         | —       |
| Demeton                                            | 8065-48-3  | 2.7E+01                                         | n                 | 3.7E-02                         | n                 | 3.7E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 2.7E+01                                         | n                 | 1.9E-02                         | n                 | 1.9E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Desethylatrazine                                   | 6190-65-4  | 2.4E+04                                         | n                 | 1.2E+01                         | n                 | 1.2E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 2.4E+04                                         | n                 | 6.0E+00                         | n                 | 6.0E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone) | 123-42-2   | 2.7E+04                                         | n                 | 5.8E+00                         | n                 | 5.8E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 2.7E+04                                         | n                 | 2.9E+00                         | n                 | 2.9E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Diallate                                           | 2303-16-4  | 3.1E+02                                         | c                 | 2.6E+00                         | c                 | 2.6E+02                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | 3.1E+02                                         | c                 | 1.3E+00                         | c                 | 1.3E+02                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Diazinon                                           | 333-41-5   | 7.9E+01                                         | n                 | 4.7E-01                         | n                 | 4.7E+01                              | n                 | 9.1E+01                                           | n                 | 4.0E+04                                 | n >S              | —                                         | 4.3E+01                                         | n                 | 2.4E-01                         | n                 | 2.4E+01                              | n                 | 4.7E+01                                           | n                 | 2.6E+03                                 | n >S              | —                                         | —       |
| Dibenz(a,h)acridine                                | 226-36-8   | 1.6E+01                                         | c                 | 1.3E+02                         | c >S              | 1.3E+04                              | c >S              | 2.6E+04                                           | c                 | 1.0E+06                                 | c >S              | —                                         | 1.6E+01                                         | c                 | 6.5E+01                         | c >S              | 6.5E+03                              | c >S              | 1.3E+04                                           | c                 | 1.0E+06                                 | c >S              | —                                         | —       |
| Dibenz(a,j)acridine                                | 224-42-0   | 2.4E+01                                         | c                 | 2.5E+02                         | c >S              | 2.5E+04                              | c >S              | 3.5E+04                                           | c                 | 1.0E+06                                 | c >S              | —                                         | 2.4E+01                                         | c                 | 1.3E+02                         | c >S              | 1.3E+04                              | c >S              | 1.8E+04                                           | c                 | 1.0E+06                                 | c >S              | —                                         | —       |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                      | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                               |                   |                                                  |                   | 30 acre source area                       |                                                 |                   |                                 |                   |                                      |                   |                                               |                   |                                                  |                   |                                           |
|----------------------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|-----------------------------------------------|-------------------|--------------------------------------------------|-------------------|-------------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|-----------------------------------------------|-------------------|--------------------------------------------------|-------------------|-------------------------------------------|
|                                                          |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>mg</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>mg</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>mg</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>mg</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) |
| Dibenz-a,h-anthracene                                    | 53-70-3    | 1.7E+01                                         | c                 | 1.6E+02                         | c >S              | 1.6E+04                              | c >S              | 4.8E+03                                       | c                 | 1.0E+06                                          | c >S              | —                                         | 1.7E+01                                         | c                 | 7.8E+01                         | c >S              | 7.8E+03                              | c >S              | 2.5E+03                                       | c                 | 1.0E+06                                          | c >S              | —                                         |
| Dibenzo(a,e)pyrene                                       | 192-65-4   | 2.6E+00                                         | c                 | 2.9E+02                         | c >S              | 2.9E+04                              | c >S              | 1.2E+04                                       | c                 | 1.0E+06                                          | c >S              | —                                         | 2.6E+00                                         | c                 | 1.5E+02                         | c >S              | 1.5E+04                              | c >S              | 6.2E+03                                       | c                 | 1.0E+06                                          | c >S              | —                                         |
| Dibenzo(a,h)pyrene                                       | 189-64-0   | 2.6E-01                                         | c                 | 2.7E+01                         | c >S              | 2.7E+03                              | c >S              | 1.2E+03                                       | c                 | 1.0E+06                                          | c >S              | —                                         | 2.6E-01                                         | c                 | 1.3E+01                         | c >S              | 1.3E+03                              | c >S              | 6.0E+02                                       | c                 | 1.0E+06                                          | c >S              | —                                         |
| Dibenzo(a,i)pyrene                                       | 189-55-9   | 2.6E-01                                         | c                 | 2.7E+01                         | c                 | 2.7E+03                              | c >S              | 1.2E+03                                       | c                 | 1.0E+06                                          | c >S              | —                                         | 2.6E-01                                         | c                 | 1.3E+01                         | c                 | 1.3E+03                              | c >S              | 6.0E+02                                       | c                 | 1.0E+06                                          | c >S              | —                                         |
| Dibenzofuran                                             | 132-64-9   | 2.7E+03                                         | n                 | 1.0E+02                         | n                 | 1.0E+04                              | n >S              | —                                             | —                 | —                                                | —                 | —                                         | 2.7E+03                                         | n                 | 5.0E+01                         | n                 | 5.0E+03                              | n >S              | —                                             | —                 | —                                                | —                 | —                                         |
| Dibenzothiophene                                         | 132-65-0   | 2.0E+03                                         | n                 | 3.0E+02                         | n >S              | 3.0E+04                              | n >S              | —                                             | —                 | —                                                | —                 | —                                         | 2.0E+03                                         | n                 | 1.5E+02                         | n >S              | 1.5E+04                              | n >S              | —                                             | —                 | —                                                | —                 | —                                         |
| Dibromo-3-chloropropane, 1,2-                            | 96-12-8    | 2.6E-01                                         | c                 | 1.7E-03                         | m                 | 1.7E-01                              | m                 | 2.6E-01                                       | c                 | 9.0E+00                                          | c                 | —                                         | 1.4E-01                                         | c                 | 8.7E-04                         | m                 | 8.7E-02                              | m                 | 1.4E-01                                       | c                 | 5.9E-01                                          | c                 | —                                         |
| Dibromochloromethane (chlorodibromomethane) <sup>8</sup> | 124-48-1   | 3.4E+02                                         | c                 | 3.6E-01                         | m                 | 3.6E+01                              | m                 | —                                             | —                 | —                                                | —                 | —                                         | 3.4E+02                                         | c                 | 1.8E-01                         | m                 | 1.8E+01                              | m                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dibromofluoromethane                                     | 1868-53-7  | 2.0E+05                                         | n                 | 4.7E+01                         | n                 | 4.7E+03                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 2.0E+05                                         | n                 | 2.3E+01                         | n                 | 2.3E+03                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dicamba                                                  | 1918-00-9  | 2.0E+04                                         | n                 | 4.4E+00                         | n                 | 4.4E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 2.0E+04                                         | n                 | 2.2E+00                         | n                 | 2.2E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichlormid                                               | 37764-25-3 | 1.7E+04                                         | n                 | 7.8E+00                         | n                 | 7.8E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 1.7E+04                                         | n                 | 3.9E+00                         | n                 | 3.9E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichloro-2-butene, 1,4-                                  | 764-41-0   | 3.3E-01                                         | c                 | —                               | —                 | —                                    | —                 | 3.3E-01                                       | c                 | 1.0E+01                                          | c                 | —                                         | 1.7E-01                                         | c                 | —                               | —                 | —                                    | —                 | 1.7E-01                                       | c                 | 6.7E-01                                          | c                 | —                                         |
| Dichloro-2-butene, 1,4- trans                            | 110-57-6   | 3.4E-01                                         | c                 | —                               | —                 | —                                    | —                 | 3.4E-01                                       | c                 | 1.1E+01                                          | c                 | —                                         | 1.8E-01                                         | c                 | —                               | —                 | —                                    | —                 | 1.8E-01                                       | c                 | 7.2E-01                                          | c                 | —                                         |
| Dichlorobenzene, 1,2-                                    | 95-50-1    | 1.1E+03                                         | n                 | 1.8E+01                         | m                 | 1.8E+03                              | m                 | 1.1E+03                                       | n                 | 4.8E+04                                          | n >S              | —                                         | 5.7E+02                                         | n                 | 8.9E+00                         | m                 | 8.9E+02                              | m                 | 5.7E+02                                       | n                 | 3.1E+03                                          | n >S              | —                                         |
| Dichlorobenzene, 1,3-                                    | 541-73-1   | 1.7E+02                                         | n                 | 2.0E+01                         | n                 | 2.0E+03                              | n >S              | 1.7E+02                                       | n                 | 2.4E+03                                          | n >S              | —                                         | 8.8E+01                                         | n                 | 1.0E+01                         | n                 | 1.0E+03                              | n >S              | 8.8E+01                                       | n                 | 1.6E+02                                          | n                 | —                                         |
| Dichlorobenzene, 1,4-                                    | 106-46-7   | 1.2E+03                                         | c                 | 2.1E+00                         | m                 | 2.1E+02                              | m                 | 1.6E+04                                       | n                 | 6.8E+05                                          | n >S              | —                                         | 1.2E+03                                         | c                 | 1.1E+00                         | m                 | 1.1E+02                              | m                 | 8.5E+03                                       | n                 | 4.4E+04                                          | n >S              | —                                         |
| Dichlorobenzidine, 3,3'-                                 | 91-94-1    | 4.2E+01                                         | c                 | 1.4E-01                         | c                 | 1.4E+01                              | c                 | —                                             | —                 | —                                                | —                 | —                                         | 4.2E+01                                         | c                 | 7.0E-02                         | c                 | 7.0E+00                              | c                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichlorobutane, 2,3-                                     | 7581-97-7  | 1.5E+02                                         | n                 | 7.7E+00                         | n                 | 7.7E+02                              | n                 | 1.5E+02                                       | n                 | 2.1E+03                                          | n                 | —                                         | 7.7E+01                                         | n                 | 3.8E+00                         | n                 | 3.8E+02                              | n                 | 7.7E+01                                       | n                 | 1.4E+02                                          | n                 | —                                         |
| Dichlorodifluoromethane                                  | 75-71-8    | 2.1E+03                                         | n                 | 7.2E+02                         | n                 | 7.2E+04                              | n >S              | 2.1E+03                                       | n                 | 4.1E+03                                          | n                 | —                                         | 1.1E+03                                         | n                 | 3.6E+02                         | n                 | 3.6E+04                              | n >S              | 1.1E+03                                       | n                 | 2.7E+02                                          | n                 | —                                         |
| Dichloroethane, 1,1-                                     | 75-34-3    | 4.1E+04                                         | n                 | 5.5E+01                         | n                 | 5.5E+03                              | n                 | 5.2E+04                                       | n                 | 2.3E+05                                          | n >S              | —                                         | 2.3E+04                                         | n                 | 2.8E+01                         | n                 | 2.8E+03                              | n                 | 2.7E+04                                       | n                 | 1.5E+04                                          | n >S              | —                                         |
| Dichloroethane, 1,2-                                     | 107-06-2   | 1.1E+02                                         | c                 | 1.4E-02                         | m                 | 1.4E+00                              | m                 | 1.8E+02                                       | c                 | 1.2E+03                                          | c                 | —                                         | 7.1E+01                                         | c                 | 6.9E-03                         | m                 | 6.9E-01                              | m                 | 9.1E+01                                       | c                 | 7.5E+01                                          | c                 | —                                         |
| Dichloroethylene, 1,1-                                   | 75-35-4    | 6.4E+03                                         | n                 | 5.0E-02                         | m                 | 5.0E+00                              | m                 | 7.3E+03                                       | n                 | 1.7E+04                                          | n                 | —                                         | 3.5E+03                                         | n                 | 2.5E-02                         | m                 | 2.5E+00                              | m                 | 3.8E+03                                       | n                 | 1.1E+03                                          | n                 | —                                         |
| Dichloroethylene, cis-1,2-                               | 156-59-2   | 7.9E+02                                         | n                 | 2.5E-01                         | m                 | 2.5E+01                              | m                 | 1.3E+03                                       | n                 | 6.1E+03                                          | n                 | —                                         | 5.0E+02                                         | n                 | 1.2E-01                         | m                 | 1.2E+01                              | m                 | 6.6E+02                                       | n                 | 3.9E+02                                          | n                 | —                                         |
| Dichloroethylene, trans-1,2                              | 156-60-5   | 1.2E+03                                         | n                 | 4.9E-01                         | m                 | 4.9E+01                              | m                 | 1.3E+03                                       | n                 | 5.3E+03                                          | n                 | —                                         | 6.4E+02                                         | n                 | 2.5E-01                         | m                 | 2.5E+01                              | m                 | 6.6E+02                                       | n                 | 3.4E+02                                          | n                 | —                                         |
| Dichlorofluoromethane                                    | 75-43-4    | 2.0E+05                                         | n                 | 4.2E+01                         | n                 | 4.2E+03                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 2.0E+05                                         | n                 | 2.1E+01                         | n                 | 2.1E+03                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichlorophenol, 2,3-                                     | 576-24-9   | 2.0E+03                                         | n                 | 1.6E+00                         | n                 | 1.6E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 2.0E+03                                         | n                 | 8.1E-01                         | n                 | 8.1E+01                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichlorophenol, 2,4-                                     | 120-83-2   | 2.0E+03                                         | n                 | 1.1E+00                         | n                 | 1.1E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 2.0E+03                                         | n                 | 5.3E-01                         | n                 | 5.3E+01                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichlorophenol, 2,5-                                     | 583-78-8   | 2.0E+03                                         | n                 | 1.5E+00                         | n                 | 1.5E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 2.0E+03                                         | n                 | 7.5E-01                         | n                 | 7.5E+01                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichlorophenol, 2,6-                                     | 87-65-0    | 6.8E+02                                         | n                 | 2.0E-01                         | n                 | 2.0E+01                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 6.8E+02                                         | n                 | 1.0E-01                         | n                 | 1.0E+01                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichlorophenol, 3,4-                                     | 95-77-2    | 2.0E+03                                         | n                 | 6.0E+00                         | n                 | 6.0E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 2.0E+03                                         | n                 | 3.0E+00                         | n                 | 3.0E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichlorophenol, 3,5-                                     | 591-35-5   | 2.0E+03                                         | n                 | 4.0E+00                         | n                 | 4.0E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 2.0E+03                                         | n                 | 2.0E+00                         | n                 | 2.0E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)          | 94-82-6    | 5.5E+03                                         | n                 | 1.2E+00                         | n                 | 1.2E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 5.5E+03                                         | n                 | 5.8E-01                         | n                 | 5.8E+01                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)                 | 94-75-7    | 1.6E+05                                         | n                 | 2.6E+00                         | m                 | 2.6E+02                              | m                 | —                                             | —                 | —                                                | —                 | —                                         | 1.6E+05                                         | n                 | 1.3E+00                         | m                 | 1.3E+02                              | m                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid)    | 120-36-5   | 6.8E+03                                         | n                 | 1.4E+00                         | n                 | 1.4E+02                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 6.8E+03                                         | n                 | 7.0E-01                         | n                 | 7.0E+01                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichloropropane, 1,2-                                    | 78-87-5    | 8.6E+01                                         | n                 | 2.3E-02                         | m                 | 2.3E+00                              | m                 | 8.6E+01                                       | n                 | 7.4E+02                                          | n                 | —                                         | 4.4E+01                                         | n                 | 1.1E-02                         | m                 | 1.1E+00                              | m                 | 4.4E+01                                       | n                 | 4.8E+01                                          | n                 | —                                         |
| Dichloropropane, 1,3-                                    | 142-28-9   | 9.9E+01                                         | c                 | 1.4E-01                         | c                 | 1.4E+01                              | c                 | 1.5E+02                                       | c                 | 3.0E+03                                          | c                 | —                                         | 6.1E+01                                         | c                 | 7.2E-02                         | c                 | 7.2E+00                              | c                 | 7.7E+01                                       | c                 | 2.0E+02                                          | c                 | —                                         |
| Dichloropropane, 2,2-                                    | 594-20-7   | 8.6E+01                                         | n                 | 2.7E-01                         | c                 | 2.7E+01                              | c                 | 8.6E+01                                       | n                 | 7.1E+02                                          | n                 | —                                         | 4.4E+01                                         | n                 | 1.4E-01                         | c                 | 1.4E+01                              | c                 | 4.4E+01                                       | n                 | 4.6E+01                                          | n                 | —                                         |
| Dichloropropanol, 2,3-                                   | 616-23-9   | 2.0E+03                                         | n                 | 7.2E-01                         | n                 | 7.2E+01                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 2.0E+03                                         | n                 | 3.6E-01                         | n                 | 3.6E+01                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dichloropropene, 1,1-                                    | 563-58-6   | 9.9E+01                                         | c                 | 3.0E-01                         | c                 | 3.0E+01                              | c                 | 1.5E+02                                       | c                 | 4.8E+02                                          | c                 | —                                         | 6.1E+01                                         | c                 | 1.5E-01                         | c                 | 1.5E+01                              | c                 | 7.7E+01                                       | c                 | 3.1E+01                                          | c                 | —                                         |
| Dichloropropene, 1,3- (mixed isomers)                    | 542-75-6   | 9.9E+01                                         | c                 | 8.8E-02                         | c                 | 8.8E+00                              | c                 | 1.5E+02                                       | c                 | 1.3E+03                                          | c                 | —                                         | 6.1E+01                                         | c                 | 4.4E-02                         | c                 | 4.4E+00                              | c                 | 7.7E+01                                       | c                 | 8.3E+01                                          | c                 | —                                         |
| Dichloropropene, cis 1,3-                                | 10061-01-5 | 5.3E+01                                         | c                 | 1.5E-02                         | c                 | 1.5E+00                              | c                 | 4.3E+02                                       | n                 | 3.8E+03                                          | n                 | —                                         | 5.3E+01                                         | c                 | 7.4E-03                         | c                 | 7.4E-01                              | c                 | 2.2E+02                                       | n                 | 2.5E+02                                          | n                 | —                                         |
| Dichloropropene, trans 1,3-                              | 10061-02-6 | 9.9E+01                                         | c                 | 8.0E-02                         | c                 | 8.0E+00                              | c                 | 1.5E+02                                       | c                 | 1.3E+03                                          | c                 | —                                         | 6.1E+01                                         | c                 | 4.0E-02                         | c                 | 4.0E+00                              | c                 | 7.7E+01                                       | c                 | 8.1E+01                                          | c                 | —                                         |
| Dichlorvos                                               | 62-73-7    | 6.6E+01                                         | c                 | 1.0E+06                         | c                 | 1.0E+06                              | c                 | 1.0E+06                                       | n                 | 1.0E+06                                          | n                 | —                                         | 6.6E+01                                         | c                 | 5.5E+05                         | c                 | 1.0E+06                              | c                 | 8.7E+05                                       | n                 | 1.0E+06                                          | n                 | —                                         |
| Dicrotophos (bidrin)                                     | 141-66-2   | 6.8E+01                                         | n                 | 1.4E-02                         | n                 | 1.4E+00                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 6.8E+01                                         | n                 | 7.0E-03                         | n                 | 7.0E-01                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dicyclopentadiene                                        | 77-73-6    | 8.2E+04                                         | n                 | —                               | —                 | —                                    | —                 | —                                             | —                 | —                                                | —                 | —                                         | 8.2E+04                                         | n                 | —                               | —                 | —                                    | —                 | —                                             | —                 | —                                                | —                 | —                                         |
| Dieldrin                                                 | 60-57-1    | 1.2E+00                                         | c                 | 1.1E-01                         | c                 | 1.1E+01                              | c                 | 5.3E+01                                       | c                 | 1.8E+05                                          | c >S              | —                                         | 1.1E+00                                         | c                 | 5.5E-02                         | c                 | 5.5E+00                              | c                 | 2.7E+01                                       | c                 | 1.2E+04                                          | c >S              | —                                         |
| Diethanolamine                                           | 111-42-2   | 3.2E+02                                         | n                 | 7.0E-02                         | n                 | 7.0E+00                              | n                 | 4.9E+03                                       | n                 | 1.0E+06                                          | n                 | —                                         | 3.0E+02                                         | n                 | 3.5E-02                         | n                 | 3.5E+00                              | n                 | 2.5E+03                                       | n                 | 9.6E+05                                          | n                 | —                                         |
| Diethyldithiocarbamate, sodium salt                      | 148-18-5   | 1.1E+02                                         | c                 | —                               | —                 | —                                    | —                 | —                                             | —                 | —                                                | —                 | —                                         | 1.1E+02                                         | c                 | —                               | —                 | —                                    | —                 | —                                             | —                 | —                                                | —                 | —                                         |
| Diethyl phthalate                                        | 84-66-2    | 5.5E+05                                         | n                 | 4.7E+02                         | n                 | 4.7E+04                              | n >S              | —                                             | —                 | —                                                | —                 | —                                         | 5.5E+05                                         | n                 | 2.3E+02                         | n                 | 2.3E+04                              | n >S              | —                                             | —                 | —                                                | —                 | —                                         |
| Diethylene glycol                                        | 111-46-6   | 1.0E+06                                         | n                 | 2.8E+02                         | n                 | 2.8E+04                              | n                 | —                                             | —                 | —                                                | —                 | —                                         | 1.0E+06                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n                 | —                                             | —                 | —                                                | —                 | —                                         |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                           | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   | 30 acre source area                 |                                                 |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   |                                     |
|---------------------------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|-------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|-------------------------------------|
|                                                               |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>10th-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>10th-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>10th-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>10th-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) |
| Diethylene glycol monobutyl ether                             | 112-34-5   | 2.8E+01                                         | n                 | 4.7E+00                         | n                 | 4.7E+02                              | n                 | 2.8E+01                                           | n                 | 9.6E+03                                 | n                 | —                                   | 1.5E+01                                         | n                 | 2.3E+00                         | n                 | 2.3E+02                              | n                 | 1.5E+01                                           | n                 | 6.2E+02                                 | n                 | —                                   |
| Diethylhexyl adipate                                          | 103-23-1   | 1.6E+04                                         | c                 | 6.1E+03                         | m >S              | 6.1E+05                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                   | 1.6E+04                                         | c                 | 3.0E+03                         | m >S              | 3.0E+05                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Diethylstilbestrol                                            | 56-53-1    | 4.1E-03                                         | c                 | 1.3E-03                         | c                 | 1.3E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   | 4.1E-03                                         | c                 | 6.5E-04                         | c                 | 6.5E-02                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)                   | 107-39-1   | 4.0E+03                                         | n                 | 1.8E+03                         | n >S              | 1.8E+05                              | n >S              | 4.3E+03                                           | n                 | 1.3E+04                                 | n >S              | —                                   | 2.1E+03                                         | n                 | 9.0E+02                         | n >S              | 9.0E+04                              | n >S              | 2.2E+03                                           | n                 | 8.6E+02                                 | n >S              | —                                   |
| Diisopropylbenzene, p-                                        | 100-18-5   | 6.8E+03                                         | n                 | 2.8E+02                         | n                 | 2.8E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+03                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Diisopropyl ether (2,2'-oxybis-propane)                       | 108-20-3   | 1.3E+04                                         | n                 | 3.6E+01                         | n                 | 3.6E+03                              | n                 | 1.5E+04                                           | n                 | 1.3E+05                                 | n >S              | —                                   | 7.2E+03                                         | n                 | 1.8E+01                         | n                 | 1.8E+03                              | n                 | 7.7E+03                                           | n                 | 8.7E+03                                 | n >S              | —                                   |
| Dimethenamid                                                  | 87674-68-8 | 1.0E+04                                         | n                 | 3.1E+00                         | n                 | 3.1E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.0E+04                                         | n                 | 1.5E+00                         | n                 | 1.5E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dimethoate                                                    | 60-51-5    | 1.4E+02                                         | n                 | 3.0E-02                         | n                 | 3.0E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+02                                         | n                 | 1.5E-02                         | n                 | 1.5E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dimethoxybenzidine, 3,3'-                                     | 119-90-4   | 1.4E+03                                         | c                 | 6.3E-01                         | c                 | 6.3E+01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+03                                         | c                 | 3.2E-01                         | c                 | 3.2E+01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dimethyl-2-nitrobenzene, 1,3-                                 | 81-20-9    | 1.0E+03                                         | n                 | 6.7E+00                         | n                 | 6.7E+02                              | n                 | 3.9E+03                                           | n                 | 6.9E+05                                 | n >S              | —                                   | 8.1E+02                                         | n                 | 3.3E+00                         | n                 | 3.3E+02                              | n                 | 2.0E+03                                           | n                 | 4.5E+04                                 | n >S              | —                                   |
| Dimethyl-3-nitrobenzene, 1,2-                                 | 83-41-0    | 9.7E+02                                         | n                 | 4.2E+00                         | n                 | 4.2E+02                              | n                 | 3.4E+03                                           | n                 | 5.4E+05                                 | n >S              | —                                   | 7.7E+02                                         | n                 | 2.1E+00                         | n                 | 2.1E+02                              | n                 | 1.7E+03                                           | n                 | 3.5E+04                                 | n >S              | —                                   |
| Dimethyl-4-nitrobenzene, 1,2-                                 | 99-51-4    | 9.8E+02                                         | n                 | 4.2E+00                         | n                 | 4.2E+02                              | n                 | 3.5E+03                                           | n                 | 5.9E+05                                 | n >S              | —                                   | 7.8E+02                                         | n                 | 2.1E+00                         | n                 | 2.1E+02                              | n                 | 1.8E+03                                           | n                 | 3.8E+04                                 | n >S              | —                                   |
| Dimethyl-5-nitrobenzene, 1,3-                                 | 99-12-7    | 9.4E+02                                         | n                 | 4.9E+00                         | n                 | 4.9E+02                              | n                 | 3.1E+03                                           | n                 | 4.5E+05                                 | n >S              | —                                   | 7.3E+02                                         | n                 | 2.5E+00                         | n                 | 2.5E+02                              | n                 | 1.6E+03                                           | n                 | 2.9E+04                                 | n >S              | —                                   |
| Dimethylphenethylamine, alpha, alpha-                         | 122-09-8   | 1.4E+03                                         | n                 | 1.1E+00                         | n                 | 1.1E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+03                                         | n                 | 5.6E-01                         | n                 | 5.6E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dimethyl phenol, 2,4-                                         | 105-67-9   | 1.4E+04                                         | n                 | 9.7E+00                         | n                 | 9.7E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+04                                         | n                 | 4.8E+00                         | n                 | 4.8E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dimethylaminoazobenzene, p-                                   | 60-11-7    | 6.8E+00                                         | n                 | 3.4E+00                         | n                 | 3.4E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+00                                         | n                 | 1.7E+00                         | n                 | 1.7E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dimethylbenz-a-anthracene, 7,12-                              | 57-97-6    | 6.9E-02                                         | c                 | 2.8E+00                         | c                 | 2.8E+02                              | c                 | 2.4E+02                                           | c                 | 1.0E+06                                 | c >S              | —                                   | 6.9E-02                                         | c                 | 1.4E+00                         | c                 | 1.4E+02                              | c                 | 1.2E+02                                           | c                 | 1.0E+06                                 | c >S              | —                                   |
| Dimethylbenzidine, 3,3'-                                      | 119-93-7   | 1.7E+00                                         | c                 | 1.8E-03                         | c                 | 1.8E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.7E+00                                         | c                 | 9.2E-04                         | c                 | 9.2E-02                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dimethylformamide, N,N-                                       | 68-12-2    | 4.3E+03                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | 4.5E+03                                           | n                 | 1.0E+06                                 | n                 | —                                   | 2.3E+03                                         | n                 | 7.1E+00                         | n                 | 7.1E+02                              | n                 | 2.3E+03                                           | n                 | 6.6E+04                                 | n                 | —                                   |
| Dimethylnaphthalene, 1,3-                                     | 575-41-7   | 2.5E+04                                         | n                 | 2.4E+03                         | n                 | 2.4E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 2.5E+04                                         | n                 | 1.2E+03                         | n                 | 1.2E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Dimethylphthalate                                             | 131-11-3   | 5.5E+05                                         | n                 | 1.9E+02                         | n                 | 1.9E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 5.5E+05                                         | n                 | 9.3E+01                         | n                 | 9.3E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Di-n-butyl phthalate                                          | 84-74-2    | 6.8E+04                                         | n                 | 9.9E+03                         | n                 | 9.9E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+04                                         | n                 | 5.0E+03                         | n                 | 5.0E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)        | 534-52-1   | 6.8E+01                                         | n                 | 1.4E-02                         | n                 | 1.4E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+01                                         | n                 | 7.0E-03                         | n                 | 7.0E-01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)                   | 99-65-0    | 6.8E+01                                         | n                 | 2.3E-02                         | n                 | 2.3E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+01                                         | n                 | 1.1E-02                         | n                 | 1.1E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dinitrobenzene, 1,4-                                          | 100-25-4   | 6.8E+01                                         | n                 | 2.2E-02                         | n                 | 2.2E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+01                                         | n                 | 1.1E-02                         | n                 | 1.1E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dinitrophenol, 2,4-                                           | 51-28-5    | 1.4E+03                                         | n                 | 2.8E-01                         | n                 | 2.8E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+03                                         | n                 | 1.4E-01                         | n                 | 1.4E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dinitrophenol, 2,5-                                           | 329-71-5   | 1.4E+03                                         | n                 | 2.9E-01                         | n                 | 2.9E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+03                                         | n                 | 1.4E-01                         | n                 | 1.4E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dinitrotoluene, 2,4-                                          | 121-14-2   | 2.8E+01                                         | c                 | 1.2E-02                         | c                 | 1.2E+00                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   | 2.8E+01                                         | c                 | 6.0E-03                         | c                 | 6.0E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dinitrotoluene, 2,6-                                          | 606-20-2   | 2.8E+01                                         | c                 | 1.1E-02                         | c                 | 1.1E+00                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   | 2.8E+01                                         | c                 | 5.4E-03                         | c                 | 5.4E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Di-n-octyl phthalate                                          | 117-84-0   | 6.8E+03                                         | n                 | 1.0E+06                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+03                                         | n                 | 1.0E+06                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Dinoseb                                                       | 88-85-7    | 6.8E+02                                         | n                 | 3.5E-01                         | m                 | 3.5E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+02                                         | n                 | 1.8E-01                         | m                 | 1.8E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dioxane 1,4-                                                  | 123-91-1   | 1.5E+02                                         | c                 | 4.0E-02                         | c                 | 4.0E+00                              | c                 | 3.0E+02                                           | c                 | 2.5E+04                                 | c                 | —                                   | 1.0E+02                                         | c                 | 2.0E-02                         | c                 | 2.0E+00                              | c                 | 1.6E+02                                           | c                 | 1.6E+03                                 | c                 | —                                   |
| Dioxin (as 2,3,7,8-TCDD toxicity equivalent quotients (TEQs)) | 1746-01-6  | 6.2E-04                                         | n                 | 1.7E-02                         | m                 | 1.7E+00                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.2E-04                                         | n                 | 8.5E-03                         | m                 | 8.5E-01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Diphenyl ether                                                | 101-84-8   | 4.2E+03                                         | n                 | 2.7E+02                         | n                 | 2.7E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 4.2E+03                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Diphenylamine                                                 | 122-39-4   | 1.7E+04                                         | n                 | 2.9E+01                         | n                 | 2.9E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.7E+04                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Diphenylhydrazine, 1,2-                                       | 122-66-7   | 2.2E+01                                         | c                 | 7.2E-02                         | c                 | 7.2E+00                              | c                 | 2.4E+02                                           | c                 | 1.8E+05                                 | c >S              | —                                   | 2.0E+01                                         | c                 | 3.6E-02                         | c                 | 3.6E+00                              | c                 | 1.2E+02                                           | c                 | 1.2E+04                                 | c                 | —                                   |
| Dipropylene glycol                                            | 110-98-5   | 8.2E+04                                         | n                 | 1.7E+01                         | n                 | 1.7E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 8.2E+04                                         | n                 | 8.5E+00                         | n                 | 8.5E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Diquat                                                        | 85-00-7    | 1.5E+03                                         | n                 | 2.0E-01                         | m                 | 2.0E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.5E+03                                         | n                 | 1.0E-01                         | m                 | 1.0E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)   | 142-73-4   | 6.8E+03                                         | n                 | 1.4E+00                         | n                 | 1.4E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+03                                         | n                 | 7.0E-01                         | n                 | 7.0E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Disulfoton                                                    | 298-04-4   | 2.7E+01                                         | n                 | 1.0E+00                         | n                 | 1.0E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 2.7E+01                                         | n                 | 5.2E-01                         | n                 | 5.2E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Diuron                                                        | 330-54-1   | 1.4E+03                                         | n                 | 2.8E+00                         | n                 | 2.8E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+03                                         | n                 | 1.4E+00                         | n                 | 1.4E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Dodecylphenol, 4-                                             | 104-43-8   | 3.4E+04                                         | n                 | 1.0E+06                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 3.4E+04                                         | n                 | 1.0E+06                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Endosulfan                                                    | 115-29-7   | 4.1E+03                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 4.1E+03                                         | n                 | 6.9E+00                         | n                 | 6.9E+02                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Endosulfan I                                                  | 959-98-8   | 1.4E+03                                         | n                 | 9.2E+01                         | n                 | 9.2E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+03                                         | n                 | 4.6E+01                         | n                 | 4.6E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Endosulfan II                                                 | 33213-65-9 | 4.1E+03                                         | n                 | 2.8E+02                         | n                 | 2.8E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 4.1E+03                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Endosulfan sulfate                                            | 1031-07-8  | 4.1E+03                                         | n                 | 1.4E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 4.1E+03                                         | n                 | 7.0E+03                         | n >S              | 7.0E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Endothall                                                     | 145-73-3   | 1.4E+04                                         | n                 | 5.3E-01                         | m                 | 5.3E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+04                                         | n                 | 2.7E-01                         | m                 | 2.7E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Endrin                                                        | 72-20-8    | 2.0E+02                                         | n                 | 7.5E-01                         | m                 | 7.5E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 2.0E+02                                         | n                 | 3.8E-01                         | m                 | 3.8E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   |
| Endrin aldehyde                                               | 7421-93-4  | 2.0E+02                                         | n                 | 1.9E+03                         | n >S              | 1.9E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 2.0E+02                                         | n                 | 9.4E+02                         | n >S              | 9.4E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |
| Endrin ketone                                                 | 53494-70-5 | 2.0E+02                                         | n                 | 1.5E+02                         | n                 | 1.5E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 2.0E+02                                         | n                 | 7.6E+01                         | n                 | 7.6E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                    |                   |                                          |                   | 30 acre source area                 |                                                 |                   |                                 |                   |                                      |                   |                                                    |                   |                                          |                   |                                     |
|-------------------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|----------------------------------------------------|-------------------|------------------------------------------|-------------------|-------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|----------------------------------------------------|-------------------|------------------------------------------|-------------------|-------------------------------------|
|                                                       |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>1st-h-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>1st-h-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>1st-h-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>1st-h-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for Secondary MCL<br>(mg/kg) |
| Epichlorohydrin                                       | 106-89-8   | 3.7E+01                                         | n                 | 4.1E-01                         | c                 | 4.1E+01                              | c                 | 3.7E+01                                            | n                 | 2.0E+03                                  | n                 | —                                   | 1.9E+01                                         | n                 | 2.1E-01                         | c                 | 2.1E+01                              | c                 | 1.9E+01                                            | n                 | 1.3E+02                                  | n                 | —                                   |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate) | 2104-64-5  | 6.8E+00                                         | n                 | 1.6E-01                         | n                 | 1.6E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 6.8E+00                                         | n                 | 8.2E-02                         | n                 | 8.2E+00                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Esfenvalerate                                         | 66230-04-4 | 1.4E+03                                         | n                 | 3.7E+02                         | n >S              | 3.7E+04                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 1.4E+03                                         | n                 | 1.9E+02                         | n >S              | 1.9E+04                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethalfuralin (sonolan)                                | 55283-68-6 | 2.1E+02                                         | c                 | 5.6E+01                         | c                 | 5.6E+03                              | c                 | —                                                  | —                 | —                                        | —                 | —                                   | 2.1E+02                                         | c                 | 2.8E+01                         | c                 | 2.8E+03                              | c                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethanol                                               | 64-17-5    | 1.0E+06                                         | n                 | 4.7E+03                         | n                 | 4.7E+05                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 1.0E+06                                         | n                 | 2.4E+03                         | n                 | 2.4E+05                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethanol, 2-amino-                                     | 141-43-5   | 9.0E+02                                         | n                 | 2.4E-01                         | n                 | 2.4E+01                              | n                 | 4.1E+03                                            | n                 | 1.0E+06                                  | n                 | —                                   | 7.5E+02                                         | n                 | 1.2E-01                         | n                 | 1.2E+01                              | n                 | 2.1E+03                                            | n                 | 7.4E+04                                  | n                 | —                                   |
| Ethanol, 2-(2-aminoethoxy)-                           | 929-06-6   | 3.4E+02                                         | n                 | 7.0E-02                         | n                 | 7.0E+00                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 3.4E+02                                         | n                 | 3.5E-02                         | n                 | 3.5E+00                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethanol, 2-(2-ethoxyethoxy)-                          | 111-90-0   | 1.0E+06                                         | n                 | 4.9E+02                         | n                 | 4.9E+04                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 1.0E+06                                         | n                 | 2.5E+02                         | n                 | 2.5E+04                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethanol, 2-(methylamino)-                             | 109-83-1   | 4.9E+03                                         | n                 | 2.2E+00                         | n                 | 2.2E+02                              | n                 | 9.0E+03                                            | n                 | 1.0E+06                                  | n >S              | —                                   | 3.3E+03                                         | n                 | 1.1E+00                         | n                 | 1.1E+02                              | n                 | 4.6E+03                                            | n                 | 1.8E+05                                  | n                 | —                                   |
| Ethion                                                | 563-12-2   | 3.4E+02                                         | n                 | 2.3E+01                         | n                 | 2.3E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 3.4E+02                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethoprop                                              | 13194-48-4 | 6.8E+01                                         | n                 | 3.7E-01                         | n                 | 3.7E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 6.8E+01                                         | n                 | 1.8E-01                         | n                 | 1.8E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethoxy ethanol, 2-                                    | 110-80-5   | 2.5E+04                                         | n                 | 1.3E+01                         | n                 | 1.3E+03                              | n >S              | 3.5E+04                                            | n                 | 1.0E+06                                  | n >S              | —                                   | 1.5E+04                                         | n                 | 6.4E+00                         | n                 | 6.4E+02                              | n >S              | 1.8E+04                                            | n                 | 5.9E+05                                  | n >S              | —                                   |
| Ethyl acetate                                         | 141-78-6   | 5.1E+03                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n                 | 5.1E+03                                            | n                 | 1.6E+05                                  | n                 | —                                   | 2.6E+03                                         | n                 | 7.0E+01                         | n                 | 7.0E+03                              | n                 | 2.6E+03                                            | n                 | 1.0E+04                                  | n                 | —                                   |
| Ethyl acrylate                                        | 140-88-5   | 3.2E+02                                         | n                 | 2.7E-01                         | c                 | 2.7E+01                              | c                 | 3.4E+02                                            | n                 | 9.6E+03                                  | n                 | —                                   | 1.7E+02                                         | n                 | 1.3E-01                         | c                 | 1.3E+01                              | c                 | 1.7E+02                                            | n                 | 6.2E+02                                  | n                 | —                                   |
| Ethyl benzene                                         | 100-41-4   | 2.9E+04                                         | n                 | 7.6E+00                         | m                 | 7.6E+02                              | m                 | 4.1E+04                                            | n                 | 4.5E+05                                  | n >S              | —                                   | 1.7E+04                                         | n                 | 3.8E+00                         | m                 | 3.8E+02                              | m                 | 2.1E+04                                            | n                 | 2.9E+04                                  | n >S              | —                                   |
| Ethyl dipropylthiocarbamate, S-                       | 759-94-4   | 1.7E+04                                         | n                 | 2.1E+01                         | n                 | 2.1E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 1.7E+04                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethyl ether                                           | 60-29-7    | 2.0E+05                                         | n                 | 3.3E+01                         | n                 | 3.3E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+05                                         | n                 | 1.7E+01                         | n                 | 1.7E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethyl methacrylate                                    | 97-63-2    | 8.9E+03                                         | n                 | 2.2E+01                         | n                 | 2.2E+03                              | n                 | 9.9E+03                                            | n                 | 2.7E+05                                  | n >S              | —                                   | 4.8E+03                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | 5.1E+03                                            | n                 | 1.8E+04                                  | n                 | —                                   |
| Ethyl methanesulfonate                                | 62-50-0    | 9.8E+01                                         | c                 | 4.0E-02                         | c                 | 4.0E+00                              | c                 | 2.0E+02                                            | c                 | 6.0E+04                                  | c                 | —                                   | 6.7E+01                                         | c                 | 2.0E-02                         | c                 | 2.0E+00                              | c                 | 1.0E+02                                            | c                 | 3.9E+03                                  | c                 | —                                   |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)      | 637-92-3   | 8.8E+02                                         | n                 | 2.7E-01                         | n                 | 2.7E+01                              | n                 | 6.4E+03                                            | n                 | 5.6E+04                                  | n >S              | —                                   | 7.8E+02                                         | n                 | 1.3E-01                         | n                 | 1.3E+01                              | n                 | 3.3E+03                                            | n                 | 3.6E+03                                  | n                 | —                                   |
| Ethyl-1-hexanol, 2-                                   | 104-76-7   | 1.0E+05                                         | n                 | 2.3E+02                         | n                 | 2.3E+04                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 1.0E+05                                         | n                 | 1.1E+02                         | n                 | 1.1E+04                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethyl-2-hexenal, 2-                                   | 645-62-5   | 1.5E+05                                         | n                 | 8.4E+01                         | n                 | 8.4E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 1.5E+05                                         | n                 | 4.2E+01                         | n                 | 4.2E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethyl-2-methyl benzene, 1-                            | 611-14-3   | 9.6E+03                                         | n                 | 1.7E+02                         | n                 | 1.7E+04                              | n >S              | 1.2E+04                                            | n                 | 5.8E+05                                  | n >S              | —                                   | 5.4E+03                                         | n                 | 8.3E+01                         | n                 | 8.3E+03                              | n >S              | 6.1E+03                                            | n                 | 3.8E+04                                  | n >S              | —                                   |
| Ethyl-4-methyl benzene, 1-                            | 622-96-8   | 8.4E+03                                         | n                 | 1.8E+02                         | n                 | 1.8E+04                              | n >S              | 1.0E+04                                            | n                 | 4.8E+05                                  | n >S              | —                                   | 4.7E+03                                         | n                 | 9.0E+01                         | n                 | 9.0E+03                              | n >S              | 5.2E+03                                            | n                 | 3.1E+04                                  | n >S              | —                                   |
| Ethylene*                                             | 74-85-1    | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 |                                     |
| Ethylene dibromide (dibromoethane, 1,2- )             | 106-93-4   | 8.7E+00                                         | c                 | 2.1E-04                         | m                 | 2.1E-02                              | m                 | 2.2E+01                                            | c                 | 5.3E+02                                  | c                 | —                                   | 6.3E+00                                         | c                 | 1.0E-04                         | m                 | 1.0E-02                              | m                 | 1.1E+01                                            | c                 | 3.4E+01                                  | c                 | —                                   |
| Ethylene glycol                                       | 107-21-1   | 1.0E+06                                         | n                 | 2.8E+02                         | n                 | 2.8E+04                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 1.0E+06                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethylene oxide                                        | 75-21-8    | 2.6E+01                                         | c                 | 4.0E-03                         | c                 | 4.0E-01                              | c                 | 4.3E+02                                            | c                 | 1.0E+04                                  | c                 | —                                   | 2.5E+01                                         | c                 | 2.0E-03                         | c                 | 2.0E-01                              | c                 | 2.2E+02                                            | c                 | 6.5E+02                                  | c                 | —                                   |
| Ethylene thiourea                                     | 96-45-7    | 5.5E+01                                         | n                 | 1.1E-02                         | n                 | 1.1E+00                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 5.5E+01                                         | n                 | 5.6E-03                         | n                 | 5.6E-01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethylenediamine                                       | 107-15-3   | 9.2E+04                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 9.2E+04                                         | n                 | 6.9E+00                         | n                 | 6.9E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Ethylenimine                                          | 151-56-4   | 1.5E-01                                         | c                 | 6.3E-05                         | c                 | 6.3E-03                              | c                 | 2.2E-01                                            | c                 | 4.7E+01                                  | c                 | —                                   | 9.0E-02                                         | c                 | 3.1E-05                         | c                 | 3.1E-03                              | c                 | 1.1E-01                                            | c                 | 3.0E+00                                  | c                 | —                                   |
| Ethylhexyl acrylate, 2-                               | 103-11-7   | 4.0E+02                                         | c                 | 1.7E+01                         | c                 | 1.7E+03                              | c                 | —                                                  | —                 | —                                        | —                 | —                                   | 4.0E+02                                         | c                 | 8.6E+00                         | c                 | 8.6E+02                              | c                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Famphur                                               | 52-85-7    | 2.0E+01                                         | n                 | 5.4E-03                         | n                 | 5.4E-01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+01                                         | n                 | 2.7E-03                         | n                 | 2.7E-01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Fensulfothion                                         | 115-90-2   | 6.8E+02                                         | n                 | 1.0E+00                         | n                 | 1.0E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 6.8E+02                                         | n                 | 5.2E-01                         | n                 | 5.2E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Fenthion                                              | 55-38-9    | 4.8E+01                                         | n                 | 2.3E-01                         | n                 | 2.3E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 4.8E+01                                         | n                 | 1.2E-01                         | n                 | 1.2E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Fenuron                                               | 101-42-8   | 4.8E+04                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 4.8E+04                                         | n                 | 6.9E+00                         | n                 | 6.9E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Fluoranthene                                          | 206-44-0   | 2.5E+04                                         | n                 | 5.7E+03                         | n >S              | 5.7E+05                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 2.5E+04                                         | n                 | 2.9E+03                         | n >S              | 2.9E+05                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Fluorene                                              | 86-73-7    | 2.5E+04                                         | n                 | 8.9E+02                         | n >S              | 8.9E+04                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 2.5E+04                                         | n                 | 4.5E+02                         | n >S              | 4.5E+04                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Fluorine (soluble fluoride)                           | 7782-41-4  | 5.8E+04                                         | n                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   | 5.8E+04                                         | n                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Fluorochloridone                                      | 61213-25-0 | 5.1E+03                                         | n                 | 1.2E+01                         | n                 | 1.2E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 5.1E+03                                         | n                 | 5.9E+00                         | n                 | 5.9E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Fonofos                                               | 944-22-9   | 1.4E+03                                         | n                 | 2.1E+01                         | n                 | 2.1E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 1.4E+03                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Formaldehyde                                          | 50-00-0    | 1.4E+03                                         | n                 | 2.9E+01                         | n                 | 2.9E+03                              | n                 | 1.4E+03                                            | n                 | 2.4E+05                                  | n                 | —                                   | 7.1E+02                                         | n                 | 1.5E+01                         | n                 | 1.5E+03                              | n                 | 7.1E+02                                            | n                 | 1.6E+04                                  | n                 | —                                   |
| Formic acid                                           | 64-18-6    | 3.0E+02                                         | n                 | 1.3E+02                         | n                 | 1.3E+04                              | n                 | 3.0E+02                                            | n                 | 4.7E+04                                  | n                 | —                                   | 1.5E+02                                         | n                 | 6.3E+01                         | n                 | 6.3E+03                              | n                 | 1.5E+02                                            | n                 | 3.1E+03                                  | n                 | —                                   |
| Furan                                                 | 110-00-9   | 1.0E+03                                         | n                 | 2.4E-01                         | n                 | 2.4E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 1.0E+03                                         | n                 | 1.2E-01                         | n                 | 1.2E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Furfural                                              | 98-01-1    | 3.1E+03                                         | n                 | 4.4E-01                         | n                 | 4.4E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 3.1E+03                                         | n                 | 2.2E-01                         | n                 | 2.2E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Glycidylaldehyde                                      | 765-34-4   | 1.4E+02                                         | n                 | 6.7E-02                         | n                 | 6.7E+00                              | n                 | 2.1E+02                                            | n                 | 4.6E+04                                  | n                 | —                                   | 8.5E+01                                         | n                 | 3.3E-02                         | n                 | 3.3E+00                              | n                 | 1.1E+02                                            | n                 | 3.0E+03                                  | n                 | —                                   |
| Glyphosate                                            | 1071-83-6  | 6.8E+05                                         | n                 | 2.9E+01                         | m                 | 2.9E+03                              | m                 | —                                                  | —                 | —                                        | —                 | —                                   | 6.8E+05                                         | n                 | 1.5E+01                         | m                 | 1.5E+03                              | m                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Heptachlor                                            | 76-44-8    | 3.3E+00                                         | c                 | 1.9E-01                         | m                 | 1.9E+01                              | m                 | 1.5E+01                                            | c                 | 5.0E+03                                  | c >S              | —                                   | 2.8E+00                                         | c                 | 9.4E-02                         | m                 | 9.4E+00                              | m                 | 7.9E+00                                            | c                 | 3.2E+02                                  | c >S              | —                                   |
| Heptachlor epoxide                                    | 1024-57-3  | 2.0E+00                                         | c                 | 5.8E-02                         | m                 | 5.8E+00                              | m                 | 4.0E+01                                            | c                 | 5.8E+04                                  | c >S              | —                                   | 1.9E+00                                         | c                 | 2.9E-02                         | m                 | 2.9E+00                              | m                 | 2.1E+01                                            | c                 | 3.8E+03                                  | c >S              | —                                   |
| Heptane, n-                                           | 142-82-5   | 4.7E+04                                         | n                 | 2.1E+03                         | n >S              | 2.1E+05                              | n >S              | 1.9E+05                                            | n                 | 5.9E+05                                  | n >S              | —                                   | 3.8E+04                                         | n                 | 1.1E+03                         | n >S              | 1.1E+05                              | n >S              | 9.9E+04                                            | n                 | 3.8E+04                                  | n >S              | —                                   |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                               |                   |                                                     |                   | 30 acre source area                       |                                                 |                   |                                 |                   |                                      |                   |                                                               |                   |                                                     |                   |                                           |
|---------------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------------------|-------------------|-----------------------------------------------------|-------------------|-------------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------------------|-------------------|-----------------------------------------------------|-------------------|-------------------------------------------|
|                                                   |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>1st<sup>3</sup>h-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>1st<sup>3</sup>h-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>1st<sup>3</sup>h-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>1st<sup>3</sup>h-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) |
| Heptanoic acid, n-                                | 111-14-8   | 1.7E+02                                         | n                 | 7.1E+01                         | n                 | 7.1E+03                              | n >S              | 1.7E+02                                                       | n                 | 4.5E+04                                             | n >S              | —                                         | 8.8E+01                                         | n                 | 3.5E+01                         | n                 | 3.5E+03                              | n >S              | 8.8E+01                                                       | n                 | 2.9E+03                                             | n >S              | —                                         |
| Hexachlorobenzene                                 | 118-74-1   | 8.7E+00                                         | c                 | 1.1E+00                         | m                 | 1.1E+02                              | m >S              | 3.2E+01                                                       | c                 | 1.1E+04                                             | c >S              | —                                         | 6.9E+00                                         | c                 | 5.6E-01                         | m                 | 5.6E+01                              | m >S              | 1.6E+01                                                       | c                 | 7.0E+02                                             | c >S              | —                                         |
| Hexachlorobutadiene                               | 87-68-3    | 4.1E+01                                         | c                 | 7.4E+00                         | c                 | 7.4E+02                              | c >S              | 4.9E+01                                                       | c                 | 4.2E+03                                             | c >S              | —                                         | 2.3E+01                                         | c                 | 3.7E+00                         | c                 | 3.7E+02                              | c >S              | 2.5E+01                                                       | c                 | 2.7E+02                                             | c                 | —                                         |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | 3.3E+00                                         | c                 | 1.8E-02                         | c                 | 1.8E+00                              | c                 | 2.3E+01                                                       | c                 | 1.4E+04                                             | c >S              | —                                         | 2.9E+00                                         | c                 | 8.9E-03                         | c                 | 8.9E-01                              | c                 | 1.2E+01                                                       | c                 | 9.1E+02                                             | c >S              | —                                         |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | 1.2E+01                                         | c                 | 6.5E-02                         | c                 | 6.5E+00                              | c                 | 1.2E+02                                                       | c                 | 1.1E+05                                             | c >S              | —                                         | 1.1E+01                                         | c                 | 3.2E-02                         | c                 | 3.2E+00                              | c                 | 6.2E+01                                                       | c                 | 7.1E+03                                             | c >S              | —                                         |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | 1.2E+01                                         | c                 | 3.9E-01                         | c                 | 3.9E+01                              | c                 | 1.7E+02                                                       | c                 | 2.1E+05                                             | c >S              | —                                         | 1.2E+01                                         | c                 | 1.9E-01                         | c                 | 1.9E+01                              | c                 | 8.8E+01                                                       | c                 | 1.3E+04                                             | c >S              | —                                         |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | 1.8E+01                                         | c                 | 9.2E-03                         | m                 | 9.2E-01                              | m                 | —                                                             | —                 | —                                                   | —                 | —                                         | 1.8E+01                                         | c                 | 4.6E-03                         | m                 | 4.6E-01                              | m                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | 1.2E+01                                         | c                 | 1.1E-01                         | c                 | 1.1E+01                              | c                 | 1.5E+02                                                       | c                 | 1.6E+05                                             | c >S              | —                                         | 1.1E+01                                         | c                 | 5.6E-02                         | c                 | 5.6E+00                              | c                 | 7.7E+01                                                       | c                 | 1.1E+04                                             | c >S              | —                                         |
| Hexachlorocyclopentadiene                         | 77-47-4    | 2.0E+01                                         | n                 | 1.9E+01                         | m                 | 1.9E+03                              | m >S              | 2.0E+01                                                       | n                 | 2.9E+03                                             | n >S              | —                                         | 1.0E+01                                         | n                 | 9.6E+00                         | m                 | 9.6E+02                              | m >S              | 1.0E+01                                                       | n                 | 1.9E+02                                             | n                 | —                                         |
| Hexachloroethane                                  | 67-72-1    | 4.5E+02                                         | n                 | 3.8E+00                         | n                 | 3.8E+02                              | n                 | 6.9E+03                                                       | n                 | 7.7E+05                                             | n >S              | —                                         | 4.2E+02                                         | n                 | 1.9E+00                         | n                 | 1.9E+02                              | n                 | 3.6E+03                                                       | n                 | 5.0E+04                                             | n >S              | —                                         |
| Hexachlorophene                                   | 70-30-4    | 2.0E+02                                         | n                 | 1.8E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                             | —                 | —                                                   | —                 | —                                         | 2.0E+02                                         | n                 | 8.8E+03                         | n >S              | 8.8E+05                              | n >S              | —                                                             | —                 | —                                                   | —                 | —                                         |
| Hexachloropropylene                               | 1888-71-7  | 4.5E+02                                         | n                 | 2.2E+01                         | n                 | 2.2E+03                              | n                 | 7.1E+03                                                       | n                 | 1.0E+06                                             | n >S              | —                                         | 4.2E+02                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | 3.7E+03                                                       | n                 | 8.3E+04                                             | n >S              | —                                         |
| Hexanal, 2-ethyl-                                 | 123-05-7   | 1.0E+05                                         | n                 | 7.9E+01                         | n                 | 7.9E+03                              | n >S              | —                                                             | —                 | —                                                   | —                 | —                                         | 1.0E+05                                         | n                 | 3.9E+01                         | n                 | 3.9E+03                              | n >S              | —                                                             | —                 | —                                                   | —                 | —                                         |
| Hexane, n-                                        | 110-54-3   | 1.2E+04                                         | n                 | 6.1E+02                         | n                 | 6.1E+04                              | n >S              | 1.4E+04                                                       | n                 | 7.4E+03                                             | n >S              | —                                         | 6.6E+03                                         | n                 | 3.0E+02                         | n                 | 3.0E+04                              | n >S              | 7.4E+03                                                       | n                 | 4.8E+02                                             | n                 | —                                         |
| Hexanediamine, 1,6-                               | 124-09-4   | 3.4E+03                                         | n                 | 7.3E-01                         | n                 | 7.3E+01                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         | 3.4E+03                                         | n                 | 3.7E-01                         | n                 | 3.7E+01                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Hexanedinitrile                                   | 111-69-3   | 5.6E+02                                         | n                 | 2.0E-01                         | n                 | 2.0E+01                              | n                 | 1.4E+03                                                       | n                 | 4.5E+05                                             | n                 | —                                         | 4.1E+02                                         | n                 | 1.0E-01                         | n                 | 1.0E+01                              | n                 | 7.1E+02                                                       | n                 | 2.9E+04                                             | n                 | —                                         |
| Hexanediol, 1,6-                                  | 629-11-8   | 1.0E+06                                         | n                 | 7.8E+02                         | n                 | 7.8E+04                              | n >S              | 1.0E+06                                                       | n                 | 1.0E+06                                             | n >S              | —                                         | 1.0E+06                                         | n                 | 3.9E+02                         | n                 | 3.9E+04                              | n >S              | 1.0E+06                                                       | n                 | 1.0E+06                                             | n >S              | —                                         |
| Hexanoic acid                                     | 142-62-1   | 1.9E+02                                         | n                 | 9.0E+00                         | n                 | 9.0E+02                              | n                 | 1.9E+02                                                       | n                 | 5.7E+04                                             | n >S              | —                                         | 9.8E+01                                         | n                 | 4.5E+00                         | n                 | 4.5E+02                              | n                 | 9.8E+01                                                       | n                 | 3.7E+03                                             | n                 | —                                         |
| Hexanone, 2-                                      | 591-78-6   | 1.1E+03                                         | n                 | 9.6E+00                         | n                 | 9.6E+02                              | n                 | 1.2E+03                                                       | n                 | 4.3E+04                                             | n                 | —                                         | 5.9E+02                                         | n                 | 4.8E+00                         | n                 | 4.8E+02                              | n                 | 5.9E+02                                                       | n                 | 2.7E+03                                             | n                 | —                                         |
| Hexazinone                                        | 51235-04-2 | 2.2E+04                                         | n                 | 8.2E+00                         | n                 | 8.2E+02                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         | 2.2E+04                                         | n                 | 4.1E+00                         | n                 | 4.1E+02                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Hexene, 1-                                        | 592-41-6   | 2.3E+03                                         | n                 | 2.2E+03                         | n                 | 2.2E+05                              | n >S              | 2.4E+03                                                       | n                 | 4.3E+03                                             | n >S              | —                                         | 1.2E+03                                         | n                 | 1.1E+03                         | n                 | 1.1E+05                              | n >S              | 1.2E+03                                                       | n                 | 2.8E+02                                             | n                 | —                                         |
| Hexene, cis-2-                                    | 7688-21-3  | 2.3E+03                                         | n                 | 1.8E+03                         | n                 | 1.8E+05                              | n >S              | 2.4E+03                                                       | n                 | 5.2E+03                                             | n >S              | —                                         | 1.2E+03                                         | n                 | 9.2E+02                         | n                 | 9.2E+04                              | n >S              | 1.2E+03                                                       | n                 | 3.3E+02                                             | n                 | —                                         |
| Hexylene glycol (2-methyl-2,4-pentanediol)        | 107-41-5   | 2.0E+05                                         | n                 | 4.4E+01                         | n                 | 4.4E+03                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         | 2.0E+05                                         | n                 | 2.2E+01                         | n                 | 2.2E+03                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Hydrazine                                         | 302-01-2   | 7.2E-01                                         | c                 | 1.3E-03                         | c                 | 1.3E-01                              | c                 | 7.8E-01                                                       | c                 | 1.6E+02                                             | c                 | —                                         | 3.8E-01                                         | c                 | 6.5E-04                         | c                 | 6.5E-02                              | c                 | 4.0E-01                                                       | c                 | 1.1E+01                                             | c                 | —                                         |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)    | 1191-25-9  | 2.2E+02                                         | n                 | 9.1E+00                         | n                 | 9.1E+02                              | n                 | 2.3E+02                                                       | n                 | 7.8E+04                                             | n >S              | —                                         | 1.2E+02                                         | n                 | 4.5E+00                         | n                 | 4.5E+02                              | n                 | 1.2E+02                                                       | n                 | 5.7E+03                                             | n                 | —                                         |
| Hydrogen chloride (hydrochloric acid)*            | 7647-01-0  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                             | —                 | —                                                   | —                 | —                                         | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Hydroquinone                                      | 123-31-9   | 3.2E+02                                         | c                 | 7.0E-02                         | c                 | 7.0E+00                              | c                 | —                                                             | —                 | —                                                   | —                 | —                                         | 3.2E+02                                         | c                 | 3.5E-02                         | c                 | 3.5E+00                              | c                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Indene                                            | 95-13-6    | 1.6E+02                                         | n                 | 2.1E+01                         | n                 | 2.1E+03                              | n                 | 1.6E+02                                                       | n                 | 5.6E+03                                             | n                 | —                                         | 8.0E+01                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | 8.1E+01                                                       | n                 | 3.6E+02                                             | n                 | —                                         |
| Indeno-1,2,3-cd-pyrene                            | 193-39-5   | 1.7E+02                                         | c                 | 2.8E+03                         | c >S              | 2.8E+05                              | c >S              | 6.2E+04                                                       | c                 | 1.0E+06                                             | c >S              | —                                         | 1.7E+02                                         | c                 | 1.4E+03                         | c >S              | 1.4E+05                              | c >S              | 3.2E+04                                                       | c                 | 1.0E+06                                             | c >S              | —                                         |
| Iron*                                             | 7439-89-6  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                             | —                 | —                                                   | —                 | —                                         | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Isoamyl alcohol                                   | 123-51-3   | 5.1E+03                                         | n                 | 9.6E-01                         | n                 | 9.6E+01                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         | 5.1E+03                                         | n                 | 4.8E-01                         | n                 | 4.8E+01                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Isobutyl alcohol                                  | 78-83-1    | 3.1E+05                                         | n                 | 4.7E+01                         | n                 | 4.7E+03                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         | 3.1E+05                                         | n                 | 2.3E+01                         | n                 | 2.3E+03                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Isobutylene (2-methyl-1-propene)                  | 115-11-7   | 3.8E+03                                         | n                 | 8.2E+00                         | n                 | 8.2E+02                              | n                 | 1.0E+06                                                       | n                 | 1.0E+06                                             | n >S              | —                                         | 3.8E+03                                         | n                 | 4.1E+00                         | n                 | 4.1E+02                              | n                 | 1.0E+06                                                       | n                 | 1.7E+05                                             | n >S              | —                                         |
| Isobutyric acid (2-methylpropanoic acid)          | 79-31-2    | 3.4E+05                                         | n                 | 7.0E+01                         | n                 | 7.0E+03                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         | 3.4E+05                                         | n                 | 3.5E+01                         | n                 | 3.5E+03                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Isodecanol                                        | 25339-17-7 | 1.1E+03                                         | n                 | 8.8E+00                         | n                 | 8.8E+02                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         | 1.1E+03                                         | n                 | 4.4E+00                         | n                 | 4.4E+02                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Isodrin                                           | 465-73-6   | 1.1E-01                                         | c                 | 3.3E+00                         | c                 | 3.3E+02                              | c                 | 2.9E+00                                                       | c                 | 1.6E+04                                             | c >S              | —                                         | 1.0E-01                                         | c                 | 1.7E+00                         | c                 | 1.7E+02                              | c                 | 1.5E+00                                                       | c                 | 1.0E+03                                             | c                 | —                                         |
| Isopentane                                        | 78-78-4    | 5.5E+04                                         | n                 | 8.0E+02                         | n                 | 8.0E+04                              | n >S              | 5.2E+05                                                       | n                 | 6.3E+05                                             | n >S              | —                                         | 5.0E+04                                         | n                 | 4.0E+02                         | n                 | 4.0E+04                              | n >S              | 2.7E+05                                                       | n                 | 4.0E+04                                             | n >S              | —                                         |
| Isophorone                                        | 78-59-1    | 2.0E+04                                         | c                 | 6.7E+00                         | c                 | 6.7E+02                              | c                 | —                                                             | —                 | —                                                   | —                 | —                                         | 2.0E+04                                         | c                 | 3.4E+00                         | c                 | 3.4E+02                              | c                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Isopropyl acetate                                 | 108-21-4   | 7.2E+04                                         | n                 | 1.2E+01                         | n                 | 1.2E+03                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         | 7.2E+04                                         | n                 | 6.0E+00                         | n                 | 6.0E+02                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Isopropyl alcohol                                 | 67-63-0    | 1.3E+04                                         | n                 | 3.0E+02                         | n                 | 3.0E+04                              | n                 | 1.4E+04                                                       | n                 | 1.0E+06                                             | n >S              | —                                         | 6.9E+03                                         | n                 | 1.5E+02                         | n                 | 1.5E+04                              | n                 | 7.0E+03                                                       | n                 | 7.8E+04                                             | n                 | —                                         |
| Isosafrole                                        | 120-58-1   | 5.5E+01                                         | c                 | 2.9E-01                         | c                 | 2.9E+01                              | c                 | 1.5E+02                                                       | c                 | 2.2E+04                                             | c >S              | —                                         | 4.1E+01                                         | c                 | 1.5E-01                         | c                 | 1.5E+01                              | c                 | 7.9E+01                                                       | c                 | 1.5E+03                                             | c                 | —                                         |
| Kelthane (dicofol)                                | 115-32-2   | 4.1E+03                                         | n                 | 2.2E+02                         | n                 | 2.2E+04                              | n >S              | —                                                             | —                 | —                                                   | —                 | —                                         | 4.1E+03                                         | n                 | 1.1E+02                         | n                 | 1.1E+04                              | n >S              | —                                                             | —                 | —                                                   | —                 | —                                         |
| Kepone (chlordecone)                              | 143-50-0   | 1.9E+00                                         | c                 | 2.2E-01                         | c                 | 2.2E+01                              | c                 | 8.2E+01                                                       | c                 | 4.3E+05                                             | c >S              | —                                         | 1.8E+00                                         | c                 | 1.1E-01                         | c                 | 1.1E+01                              | c                 | 4.2E+01                                                       | c                 | 2.8E+04                                             | c >S              | —                                         |
| Lead (inorganic)                                  | 7439-92-1  | 1.6E+03                                         | e                 | 3.0E+00                         | e >S              | 3.0E+02                              | e >S              | —                                                             | —                 | —                                                   | —                 | —                                         | 1.6E+03                                         | e                 | 1.5E+00                         | e >S              | 1.5E+02                              | e >S              | —                                                             | —                 | —                                                   | —                 | —                                         |
| Leptophos                                         | 21609-90-5 | 3.2E+00                                         | n                 | 1.9E+00                         | n                 | 1.9E+02                              | n >S              | 4.7E+01                                                       | n                 | 4.7E+05                                             | n >S              | —                                         | 3.0E+00                                         | n                 | 9.6E-01                         | n                 | 9.6E+01                              | n >S              | 2.4E+01                                                       | n                 | 3.0E+04                                             | n >S              | —                                         |
| Limonene, d-*                                     | 5989-27-5  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                             | —                 | —                                                   | —                 | —                                         | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Lithium                                           | 7439-93-2  | 6.8E+03                                         | n                 | —                               | —                 | —                                    | —                 | —                                                             | —                 | —                                                   | —                 | —                                         | 6.8E+03                                         | n                 | —                               | —                 | —                                    | —                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Magnesium*                                        | 7439-95-4  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                             | —                 | —                                                   | —                 | —                                         | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                             | —                 | —                                                   | —                 | —                                         |
| Malathion                                         | 121-75-5   | 2.8E+02                                         | n                 | 2.0E+01                         | n                 | 2.0E+03                              | n >S              | 2.8E+02                                                       | n                 | 1.7E+05                                             | n >S              | —                                         | 1.4E+02                                         | n                 | 9.8E+00                         | n                 | 9.8E+02                              | n >S              | 1.4E+02                                                       | n                 | 1.1E+04                                             | n >S              | —                                         |
| Maleic anhydride                                  | 108-31-6   | 6.8E+04                                         | n                 | 2.1E+01                         | n                 | 2.1E+03                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         | 6.8E+04                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | —                                                             | —                 | —                                                   | —                 | —                                         |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   | 30 acre source area                       |                                                 |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   |                                           |         |
|----------------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|-------------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|-------------------------------------------|---------|
|                                                    |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>10th-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>10th-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>10th-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>10th-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) |         |
| Maleic hydrazide                                   | 123-33-1   | 3.4E+05                                         | n                 | 1.1E+02                         | n                 | 1.1E+04                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 3.4E+05                                         | n                 | 5.3E+01                         | n                 | 5.3E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Malononitrile                                      | 109-77-3   | 6.8E+01                                         | n                 | 1.5E-02                         | n                 | 1.5E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 6.8E+01                                         | n                 | 7.7E-03                         | n                 | 7.7E-01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Mancozeb                                           | 8018-01-7  | 2.0E+04                                         | n                 | 5.4E+00                         | n                 | 5.4E+02                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 2.0E+04                                         | n                 | 2.7E+00                         | n                 | 2.7E+02                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Manganese                                          | 7439-96-5  | 7.3E+04                                         | n                 | 1.0E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | 5.0E+01                                   | 6.9E+04                                         | n                 | 5.1E+03                         | n >S              | 5.1E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 2.5E+01 |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | 3.4E+02                                         | n                 | 7.0E-02                         | n                 | 7.0E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 3.4E+02                                         | n                 | 3.5E-02                         | n                 | 3.5E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | 6.8E+02                                         | n                 | 1.4E-01                         | n                 | 1.4E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 6.8E+02                                         | n                 | 7.0E-02                         | n                 | 7.0E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Mercury (pH = 4.9) <sup>5</sup>                    | 7439-97-6  | 6.2E+00                                         | n                 | 7.8E-03                         | m                 | 7.8E-01                              | m >S              | 6.4E+00                                           | n                 | 4.0E+01                                 | n >S              | —                                         | 3.3E+00                                         | n                 | 3.9E-03                         | m                 | 3.9E-01                              | m >S              | 3.3E+00                                           | n                 | 2.6E+00                                 | n >S              | —                                         | —       |
| Mercury (pH=6.8) <sup>5</sup>                      | 7439-97-6  | 1.9E+01                                         | n                 | 2.1E+00                         | m                 | 2.1E+02                              | m >S              | 2.2E+01                                           | n                 | 1.1E+04                                 | n >S              | —                                         | 1.1E+01                                         | n                 | 1.0E+00                         | m                 | 1.0E+02                              | m >S              | 1.1E+01                                           | n                 | 6.9E+02                                 | m >S              | —                                         | —       |
| Merphos                                            | 150-50-5   | 2.0E+01                                         | n                 | 1.9E+01                         | n                 | 1.9E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 2.0E+01                                         | n                 | 9.7E+00                         | n                 | 9.7E+02                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methacrylic acid (2-methyl-2-propenoic acid)       | 79-41-4    | 1.0E+04                                         | n                 | 1.4E+00                         | n                 | 1.4E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.0E+04                                         | n                 | 7.0E-01                         | n                 | 7.0E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methacrylonitrile                                  | 126-98-7   | 8.0E+02                                         | n                 | 7.5E+00                         | n                 | 7.5E+02                              | n                 | 8.2E+02                                           | n                 | 3.2E+04                                 | n                 | —                                         | 4.2E+02                                         | n                 | 3.8E+00                         | n                 | 3.8E+02                              | n                 | 4.2E+02                                           | n                 | 2.1E+03                                 | n                 | —                                         | —       |
| Methanol                                           | 67-56-1    | 3.7E+05                                         | n                 | 2.8E+02                         | n                 | 2.8E+04                              | n                 | 4.6E+05                                           | n                 | 1.0E+06                                 | n >S              | —                                         | 2.1E+05                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n                 | 2.4E+05                                           | n                 | 9.6E+05                                 | n >S              | —                                         | —       |
| Methapyrillene                                     | 91-80-5    | 4.1E+00                                         | c                 | 1.2E-03                         | c                 | 1.2E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | 4.1E+00                                         | c                 | 5.9E-04                         | c                 | 5.9E-02                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methomyl                                           | 16752-77-5 | 1.7E+04                                         | n                 | 1.5E+01                         | n                 | 1.5E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.7E+04                                         | n                 | 7.6E+00                         | n                 | 7.6E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methoxychlor                                       | 72-43-5    | 3.4E+03                                         | n                 | 1.2E+02                         | m                 | 1.2E+04                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                         | 3.4E+03                                         | n                 | 6.2E+01                         | m                 | 6.2E+03                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methoxyethanol, 2-                                 | 109-86-4   | 4.2E+02                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n >S              | 4.3E+02                                           | n                 | 6.2E+02                                 | n >S              | —                                         | 2.2E+02                                         | n                 | 5.4E+00                         | n                 | 5.4E+02                              | n >S              | 2.2E+02                                           | n                 | 4.0E+01                                 | n                 | —                                         | —       |
| Methyl acetate (acetic acid, methyl ester)         | 79-20-9    | 1.0E+06                                         | n                 | 1.5E+02                         | n                 | 1.5E+04                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.0E+06                                         | n                 | 7.3E+01                         | n                 | 7.3E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methyl acrylate                                    | 96-33-3    | 3.6E+02                                         | n                 | 3.1E-01                         | n                 | 3.1E+01                              | n                 | 4.3E+02                                           | n                 | 7.9E+03                                 | n                 | —                                         | 2.0E+02                                         | n                 | 1.5E-01                         | n                 | 1.5E+01                              | n                 | 2.2E+02                                           | n                 | 5.1E+02                                 | n                 | —                                         | —       |
| Methyl amyl ketone (2-heptanone)                   | 110-43-0   | 3.8E+04                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | 1.6E+05                                           | n                 | 1.0E+06                                 | n >S              | —                                         | 3.1E+04                                         | n                 | 7.1E+00                         | n                 | 7.1E+02                              | n                 | 8.0E+04                                           | n                 | 3.9E+05                                 | n >S              | —                                         | —       |
| Methyl chrysene, 1-                                | 3351-28-8  | 2.4E+03                                         | c                 | 5.0E+04                         | c >S              | 1.0E+06                              | c >S              | 1.0E+06                                           | c                 | 1.0E+06                                 | c >S              | —                                         | 2.4E+03                                         | c                 | 2.5E+04                         | c >S              | 1.0E+06                              | c >S              | 1.0E+06                                           | c                 | 1.0E+06                                 | c >S              | —                                         | —       |
| Methyl chrysene, 2-                                | 3351-32-4  | 2.4E+03                                         | c                 | 5.0E+04                         | c >S              | 1.0E+06                              | c >S              | 1.0E+06                                           | c                 | 1.0E+06                                 | c >S              | —                                         | 2.4E+03                                         | c                 | 2.5E+04                         | c >S              | 1.0E+06                              | c >S              | 1.0E+06                                           | c                 | 1.0E+06                                 | c >S              | —                                         | —       |
| Methyl chrysene, 6-                                | 1705-85-7  | 2.4E+02                                         | c                 | 4.0E+03                         | c >S              | 4.0E+05                              | c >S              | 3.9E+05                                           | c                 | 1.0E+06                                 | c >S              | —                                         | 2.4E+02                                         | c                 | 2.0E+03                         | c >S              | 2.0E+05                              | c >S              | 2.0E+05                                           | c                 | 1.0E+06                                 | c >S              | —                                         | —       |
| Methyl cyclohexane                                 | 108-87-2   | 6.4E+04                                         | n                 | 4.6E+04                         | n >S              | 1.0E+06                              | n >S              | 6.4E+04                                           | n                 | 2.5E+05                                 | n >S              | —                                         | 3.3E+04                                         | n                 | 2.3E+04                         | n >S              | 1.0E+06                              | n >S              | 3.3E+04                                           | n                 | 1.6E+04                                 | n >S              | —                                         | —       |
| Methyl ethyl ketone (2-butanone)                   | 78-93-3    | 1.9E+05                                         | n                 | 8.7E+01                         | n                 | 8.7E+03                              | n                 | 2.8E+05                                           | n                 | 1.0E+06                                 | n >S              | —                                         | 1.2E+05                                         | n                 | 4.4E+01                         | n                 | 4.4E+03                              | n                 | 1.5E+05                                           | n                 | 8.7E+05                                 | n >S              | —                                         | —       |
| Methyl iodide (iodomethane)                        | 74-88-4    | 1.4E+03                                         | n                 | 3.4E-01                         | n                 | 3.4E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.4E+03                                         | n                 | 1.7E-01                         | n                 | 1.7E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methyl isobutyl ketone (4-methyl-2-pentanone)      | 108-10-1   | 4.1E+04                                         | n                 | 1.5E+01                         | n                 | 1.5E+03                              | n                 | 8.1E+04                                           | n                 | 1.0E+06                                 | n >S              | —                                         | 2.8E+04                                         | n                 | 7.4E+00                         | n                 | 7.4E+02                              | n                 | 4.2E+04                                           | n                 | 1.5E+05                                 | n >S              | —                                         | —       |
| Methyl mercury                                     | 22967-92-6 | 9.7E+01                                         | n                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                         | 9.7E+01                                         | n                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methyl methacrylate                                | 80-62-6    | 1.5E+04                                         | n                 | 2.9E+02                         | n                 | 2.9E+04                              | n                 | 1.5E+04                                           | n                 | 3.2E+05                                 | n >S              | —                                         | 7.7E+03                                         | n                 | 1.5E+02                         | n                 | 1.5E+04                              | n                 | 7.7E+03                                           | n                 | 2.0E+04                                 | n                 | —                                         | —       |
| Methyl methanesulfonate                            | 66-27-3    | 9.5E+01                                         | c                 | 4.0E-02                         | c                 | 4.0E+00                              | c                 | 1.9E+02                                           | c                 | 5.4E+04                                 | c                 | —                                         | 6.4E+01                                         | c                 | 2.0E-02                         | c                 | 2.0E+00                              | c                 | 9.7E+01                                           | c                 | 3.5E+03                                 | c                 | —                                         | —       |
| Methyl parathion                                   | 298-00-0   | 1.7E+02                                         | n                 | 5.1E-01                         | n                 | 5.1E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.7E+02                                         | n                 | 2.5E-01                         | n                 | 2.5E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methyl-1-butene, 2-                                | 563-46-2   | 5.3E+04                                         | n                 | 1.9E+02                         | n                 | 1.9E+04                              | n >S              | 3.9E+05                                           | n                 | 4.8E+05                                 | n >S              | —                                         | 4.7E+04                                         | n                 | 9.7E+01                         | n                 | 9.7E+03                              | n >S              | 2.0E+05                                           | n                 | 3.1E+04                                 | n >S              | —                                         | —       |
| Methyl-1-propanal, 2- (isobutyraldehyde)           | 78-84-2    | 4.1E+04                                         | n                 | 6.2E+00                         | n                 | 6.2E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 4.1E+04                                         | n                 | 3.1E+00                         | n                 | 3.1E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methyl-2-butene, 2-                                | 513-35-9   | 5.3E+04                                         | n                 | 1.2E+02                         | n                 | 1.2E+04                              | n >S              | 3.9E+05                                           | n                 | 5.5E+05                                 | n >S              | —                                         | 4.7E+04                                         | n                 | 5.8E+01                         | n                 | 5.8E+03                              | n >S              | 2.0E+05                                           | n                 | 3.6E+04                                 | n >S              | —                                         | —       |
| Methyl-2-pentenal, 2-                              | 623-36-9   | 1.5E+01                                         | c                 | 3.3E-03                         | c                 | 3.3E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.5E+01                                         | c                 | 1.6E-03                         | c                 | 1.6E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methylcholanthrene, 3-                             | 56-49-5    | 7.9E-01                                         | c                 | 3.4E+01                         | c                 | 3.4E+03                              | c >S              | 3.0E+03                                           | c                 | 1.0E+06                                 | c >S              | —                                         | 7.9E-01                                         | c                 | 1.7E+01                         | c                 | 1.7E+03                              | c >S              | 1.5E+03                                           | c                 | 1.0E+06                                 | c >S              | —                                         | —       |
| Methylene bromide (dibromomethane)                 | 74-95-3    | 1.1E+02                                         | n                 | 2.5E+00                         | c                 | 2.5E+02                              | c                 | 1.1E+02                                           | n                 | 3.1E+03                                 | n                 | —                                         | 5.9E+01                                         | n                 | 1.3E+00                         | c                 | 1.3E+02                              | c                 | 5.9E+01                                           | n                 | 2.0E+02                                 | n                 | —                                         | —       |
| Methylene chloride (dichloromethane)               | 75-09-2    | 1.2E+04                                         | n                 | 1.3E-02                         | m                 | 1.3E+00                              | m                 | 2.1E+04                                           | c                 | 9.4E+04                                 | c >S              | —                                         | 8.6E+03                                         | n                 | 6.5E-03                         | m                 | 6.5E-01                              | m                 | 1.1E+04                                           | c                 | 6.1E+03                                 | c                 | —                                         | —       |
| Methylene-bis (2-chloroaniline) 4,4'-              | 101-14-4   | 1.8E+02                                         | c                 | 6.5E+00                         | c                 | 6.5E+02                              | c                 | 4.5E+03                                           | c                 | 1.0E+06                                 | c >S              | —                                         | 1.8E+02                                         | c                 | 3.2E+00                         | c                 | 3.2E+02                              | c                 | 2.3E+03                                           | c                 | 6.9E+05                                 | c >S              | —                                         | —       |
| Methylmercury hydroxide                            | 1184-57-2  | 6.8E+01                                         | n                 | 1.4E-02                         | n                 | 1.4E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 6.8E+01                                         | n                 | 7.1E-03                         | n                 | 7.1E-01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methylnaphthalene, 1-                              | 90-12-0    | 6.0E+02                                         | c                 | 6.6E+00                         | c                 | 6.6E+02                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | 6.0E+02                                         | c                 | 3.3E+00                         | c                 | 3.3E+02                              | c                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methylnaphthalene, 2-                              | 91-57-6    | 2.5E+03                                         | n                 | 5.1E+01                         | n                 | 5.1E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 2.5E+03                                         | n                 | 2.5E+01                         | n                 | 2.5E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methylpyrrolidone, N-                              | 872-50-4   | 1.4E+04                                         | n                 | 2.9E+00                         | n                 | 2.9E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.4E+04                                         | n                 | 1.4E+00                         | n                 | 1.4E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Methylstyrene, alpha-                              | 98-83-9    | 6.3E+02                                         | n                 | 1.9E+01                         | n                 | 1.9E+03                              | n                 | 6.8E+02                                           | n                 | 3.0E+04                                 | n >S              | —                                         | 3.3E+02                                         | n                 | 9.7E+00                         | n                 | 9.7E+02                              | n                 | 3.5E+02                                           | n                 | 1.9E+03                                 | n >S              | —                                         | —       |
| Methyltetrahydrofuran, 2-                          | 96-47-9    | 2.9E+02                                         | c                 | 6.2E-01                         | c                 | 6.2E+01                              | c                 | 3.2E+02                                           | c                 | 7.0E+03                                 | c                 | —                                         | 1.6E+02                                         | c                 | 3.1E-01                         | c                 | 3.1E+01                              | c                 | 1.6E+02                                           | c                 | 4.5E+02                                 | c                 | —                                         | —       |
| Methyltetrahydropyran, 2-                          | 10141-72-7 | 3.3E+02                                         | c                 | 7.3E-01                         | c                 | 7.3E+01                              | c                 | 3.7E+02                                           | c                 | 9.6E+03                                 | c                 | —                                         | 1.8E+02                                         | c                 | 3.6E-01                         | c                 | 3.6E+01                              | c                 | 1.9E+02                                           | c                 | 6.2E+02                                 | c                 | —                                         | —       |
| Metolachlor                                        | 51218-45-2 | 1.0E+05                                         | n                 | 3.3E+02                         | n                 | 3.3E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 1.0E+05                                         | n                 | 1.6E+02                         | n                 | 1.6E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Metribuzin                                         | 21087-64-9 | 1.7E+04                                         | n                 | 3.7E+00                         | n                 | 3.7E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.7E+04                                         | n                 | 1.8E+00                         | n                 | 1.8E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Mirex                                              | 2385-85-5  | 1.4E+02                                         | n                 | 1.3E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 1.4E+02                                         | n                 | 6.7E+03                         | n >S              | 6.7E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Molinate                                           | 2212-67-1  | 1.4E+03                                         | n                 | 5.7E-01                         | n                 | 5.7E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | 1.4E+03                                         | n                 | 2.9E-01                         | n                 | 2.9E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                         | —       |
| Molybdenum                                         | 7439-98-7  | 4.5E+03                                         | n                 | 1.5E+02                         | n >S              | 1.5E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                         | 4.5E+03                                         | n                 | 7.3E+01                         | n >S              | 7.3E+03                              | n >S              | —                                                 | —                 | —                                       |                   |                                           |         |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                         | CAS        | 0.5 acre source area                            |                   |                                  |                   |                                      |                   |                                                             |                   |                                                   |                   | 30 acre source area                       |                                                 |                   |                                  |                   |                                      |                   |                                                             |                   |                                                   |                   |                                           |   |
|---------------------------------------------|------------|-------------------------------------------------|-------------------|----------------------------------|-------------------|--------------------------------------|-------------------|-------------------------------------------------------------|-------------------|---------------------------------------------------|-------------------|-------------------------------------------|-------------------------------------------------|-------------------|----------------------------------|-------------------|--------------------------------------|-------------------|-------------------------------------------------------------|-------------------|---------------------------------------------------|-------------------|-------------------------------------------|---|
|                                             |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | Air <sub>Soil<sub>Ing</sub>-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | Air <sub>GW-Soil<sub>Ing</sub>-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>Ing</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | Air <sub>Soil<sub>Ing</sub>-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | Air <sub>GW-Soil<sub>Ing</sub>-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) |   |
| Monocrotophos                               | 2157-98-4  | 4.1E+02                                         | n                 | 8.8E-02                          | n                 | 8.8E+00                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 4.1E+02                                         | n                 | 4.4E-02                          | n                 | 4.4E+00                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Morpholine                                  | 110-91-8   | 1.0E+06                                         | n                 | 7.1E+04                          | n                 | 1.0E+06                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.0E+06                                         | n                 | 3.6E+04                          | n                 | 9.8E+05                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Morpholine, N-butyl-                        | 1005-67-0  | 1.6E+03                                         | n                 | 6.9E-01                          | n                 | 6.9E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.6E+03                                         | n                 | 3.5E-01                          | n                 | 3.5E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| MTBE (methyl tert-butyl ether) <sup>6</sup> | 1634-04-4  | 2.0E+03                                         | c                 | 1.9E+00                          | n                 | 1.9E+02                              | n                 | 2.3E+03                                                     | c                 | 1.7E+04                                           | c                 | 3.8E-02                                   | 1.1E+03                                         | c                 | 9.3E-01                          | n                 | 9.3E+01                              | n                 | 1.2E+03                                                     | c                 | 1.1E+03                                           | c                 | 1.9E-02                                   | — |
| Naled                                       | 300-76-5   | 1.4E+03                                         | n                 | 1.1E+00                          | n                 | 1.1E+02                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | 1.4E+03                                         | n                 | 5.3E-01                          | n                 | 5.3E+01                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Naphthalene                                 | 91-20-3    | 3.6E+02                                         | n                 | 9.3E+01                          | n                 | 9.3E+03                              | n >S              | 3.7E+02                                                     | n                 | 2.8E+04                                           | n >S              | —                                         | 1.9E+02                                         | n                 | 4.7E+01                          | n                 | 4.7E+03                              | n >S              | 1.9E+02                                                     | n                 | 1.8E+03                                           | n >S              | —                                         | — |
| Naphthoquinone, 1,4-                        | 130-15-4   | 4.8E+03                                         | n                 | 1.4E+00                          | n                 | 1.4E+02                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 4.8E+03                                         | n                 | 6.9E-01                          | n                 | 6.9E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Naphthylamine, 1-                           | 134-32-7   | 1.4E+04                                         | n                 | 2.8E+01                          | n                 | 2.8E+03                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.4E+04                                         | n                 | 1.4E+01                          | n                 | 1.4E+03                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Naphthylamine, 2-                           | 91-59-8    | 1.1E+01                                         | c                 | 2.9E-02                          | c                 | 2.9E+00                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.1E+01                                         | c                 | 1.4E-02                          | c                 | 1.4E+00                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Napropamide                                 | 15299-99-7 | 6.8E+04                                         | n                 | 1.6E+03                          | n                 | 1.6E+05                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | 6.8E+04                                         | n                 | 8.2E+02                          | n                 | 8.2E+04                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Neopentyl glycol                            | 126-30-7   | 2.0E+05                                         | n                 | 4.4E+01                          | n                 | 4.4E+03                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 2.0E+05                                         | n                 | 2.2E+01                          | n                 | 2.2E+03                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nickel and compounds                        | 7440-02-0  | 8.8E+03                                         | n                 | 4.7E+02                          | n >S              | 4.7E+04                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | 8.6E+03                                         | n                 | 2.3E+02                          | n >S              | 2.3E+04                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrate-N <sup>7, 9</sup>                   | 14797-55-8 | 1.0E+06                                         | n                 | —                                | —                 | —                                    | —                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.0E+06                                         | n                 | —                                | —                 | —                                    | —                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrite-N <sup>7, 9</sup>                   | 14797-65-0 | 9.7E+04                                         | n                 | —                                | —                 | —                                    | —                 | —                                                           | —                 | —                                                 | —                 | —                                         | 9.7E+04                                         | n                 | —                                | —                 | —                                    | —                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitroaniline, 2-                            | 88-74-4    | 5.0E+01                                         | n                 | 6.6E-02                          | n                 | 6.6E+00                              | n                 | 6.7E+01                                                     | n                 | 1.7E+04                                           | n >S              | —                                         | 2.9E+01                                         | n                 | 3.3E-02                          | n                 | 3.3E+00                              | n                 | 3.4E+01                                                     | n                 | 1.1E+03                                           | n                 | —                                         | — |
| Nitroaniline, 3-                            | 99-09-2    | 5.9E+01                                         | n                 | 7.6E-02                          | n                 | 7.6E+00                              | n                 | 8.4E+01                                                     | n                 | 2.3E+04                                           | n >S              | —                                         | 3.6E+01                                         | n                 | 3.8E-02                          | n                 | 3.8E+00                              | n                 | 4.3E+01                                                     | n                 | 1.5E+03                                           | n >S              | —                                         | — |
| Nitroaniline, 4-                            | 100-01-6   | 9.5E+02                                         | c                 | 2.4E-01                          | c                 | 2.4E+01                              | c                 | 1.7E+03                                                     | n                 | 4.7E+05                                           | n >S              | —                                         | 6.6E+02                                         | n                 | 1.2E-01                          | c                 | 1.2E+01                              | c                 | 8.7E+02                                                     | n                 | 3.1E+04                                           | n >S              | —                                         | — |
| Nitrobenzene                                | 98-95-3    | 1.1E+02                                         | c                 | 1.0E+00                          | n                 | 1.0E+02                              | n                 | 1.1E+02                                                     | c                 | 8.7E+03                                           | c                 | —                                         | 5.7E+01                                         | c                 | 5.2E-01                          | n                 | 5.2E+01                              | n                 | 5.7E+01                                                     | c                 | 5.6E+02                                           | c                 | —                                         | — |
| Nitroglycerin                               | 55-63-0    | 6.8E+01                                         | n                 | 4.1E-02                          | n                 | 4.1E+00                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 6.8E+01                                         | n                 | 2.1E-02                          | n                 | 2.1E+00                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrophenol, 2-                             | 88-75-5    | 1.4E+03                                         | n                 | 4.0E-01                          | n                 | 4.0E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.4E+03                                         | n                 | 2.0E-01                          | n                 | 2.0E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrophenol, 3-                             | 554-84-7   | 1.4E+03                                         | n                 | 6.8E-01                          | n                 | 6.8E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.4E+03                                         | n                 | 3.4E-01                          | n                 | 3.4E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrophenol, 4-                             | 100-02-7   | 1.4E+03                                         | n                 | 3.0E-01                          | n                 | 3.0E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.4E+03                                         | n                 | 1.5E-01                          | n                 | 1.5E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitropropane, 2-                            | 79-46-9    | 1.0E+00                                         | c                 | 2.1E-02                          | n                 | 2.1E+00                              | n                 | 1.0E+00                                                     | c                 | 2.8E+01                                           | c                 | —                                         | 5.3E-01                                         | c                 | 1.1E-02                          | n                 | 1.1E+00                              | n                 | 5.3E-01                                                     | c                 | 1.8E+00                                           | c                 | —                                         | — |
| Nitroquinoline-N-oxide, 4-                  | 56-57-5    | 1.2E+00                                         | c                 | 5.2E-04                          | c                 | 5.2E-02                              | c                 | 3.2E+00                                                     | c                 | 4.5E+04                                           | c                 | —                                         | 9.0E-01                                         | c                 | 2.6E-04                          | c                 | 2.6E-02                              | c                 | 1.6E+00                                                     | c                 | 2.2E+04                                           | c                 | —                                         | — |
| Nitrosodiethanolamine                       | 1116-54-7  | 6.8E+00                                         | c                 | 1.5E-03                          | c                 | 1.5E-01                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | 6.8E+00                                         | c                 | 7.4E-04                          | c                 | 7.4E-02                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrosodiethylamine, n-                     | 55-18-5    | 7.0E-02                                         | c                 | 2.8E-05                          | c                 | 2.8E-03                              | c                 | 1.1E-01                                                     | c                 | 2.5E+01                                           | c                 | —                                         | 4.4E-02                                         | c                 | 1.4E-05                          | c                 | 1.4E-03                              | c                 | 5.7E-02                                                     | c                 | 1.6E+00                                           | c                 | —                                         | — |
| Nitrosodimethylamine, n-                    | 62-75-9    | 2.1E-01                                         | c                 | 8.3E-05                          | c                 | 8.3E-03                              | c                 | 3.3E-01                                                     | c                 | 7.0E+01                                           | c                 | —                                         | 1.3E-01                                         | c                 | 4.1E-05                          | c                 | 4.1E-03                              | c                 | 1.7E-01                                                     | c                 | 4.5E+00                                           | c                 | —                                         | — |
| Nitrosodi-n-butylamine, n-                  | 924-16-3   | 1.2E+00                                         | c                 | 4.2E-03                          | c                 | 4.2E-01                              | c                 | 1.7E+00                                                     | c                 | 8.8E+01                                           | c                 | —                                         | 7.1E-01                                         | c                 | 2.1E-03                          | c                 | 2.1E-01                              | c                 | 9.0E-01                                                     | c                 | 5.7E+00                                           | c                 | —                                         | — |
| Nitrosodi-n-propylamine, n-                 | 621-64-7   | 1.4E+00                                         | c                 | 7.9E-04                          | c                 | 7.9E-02                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.4E+00                                         | c                 | 3.9E-04                          | c                 | 3.9E-02                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrosodiphenylamine                        | 86-30-6    | 1.9E+03                                         | c                 | 6.3E+00                          | c                 | 6.3E+02                              | c >S              | —                                                           | —                 | —                                                 | —                 | —                                         | 1.9E+03                                         | c                 | 3.2E+00                          | c                 | 3.2E+02                              | c >S              | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitroso-methyl-ethyl-amine, n-              | 10595-95-6 | 1.3E+00                                         | c                 | 2.6E-04                          | c                 | 2.6E-02                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.3E+00                                         | c                 | 1.3E-04                          | c                 | 1.3E-02                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrosomorpholine, N-                       | 59-89-2    | 1.4E+00                                         | c                 | 5.9E-04                          | c                 | 5.9E-02                              | c                 | 2.9E+00                                                     | c                 | 8.8E+02                                           | c                 | —                                         | 9.7E-01                                         | c                 | 2.9E-04                          | c                 | 2.9E-02                              | c                 | 1.5E+00                                                     | c                 | 5.7E+01                                           | c                 | —                                         | — |
| Nitroso-n-ethylurea, n-                     | 759-73-9   | 1.4E-01                                         | c                 | 4.7E-05                          | c                 | 4.7E-03                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.4E-01                                         | c                 | 2.3E-05                          | c                 | 2.3E-03                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrosopiperidine, N-                       | 100-75-4   | 1.1E+00                                         | c                 | 4.6E-04                          | c                 | 4.6E-02                              | c                 | 2.2E+00                                                     | c                 | 5.9E+02                                           | c                 | —                                         | 7.4E-01                                         | c                 | 2.3E-04                          | c                 | 2.3E-02                              | c                 | 1.2E+00                                                     | c                 | 3.8E+01                                           | c                 | —                                         | — |
| Nitrosopyrrolidine, n-                      | 930-55-2   | 4.7E+00                                         | c                 | 1.9E-03                          | c                 | 1.9E-01                              | c                 | 9.8E+00                                                     | c                 | 3.1E+03                                           | c                 | —                                         | 3.2E+00                                         | c                 | 9.5E-04                          | c                 | 9.5E-02                              | c                 | 5.0E+00                                                     | c                 | 2.0E+02                                           | c                 | —                                         | — |
| Nitrotoluene, m-                            | 99-08-1    | 6.8E+03                                         | n                 | 5.5E+00                          | n                 | 5.5E+02                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 6.8E+03                                         | n                 | 2.8E+00                          | n                 | 2.8E+02                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrotoluene, o-                            | 88-72-2    | 8.7E+01                                         | c                 | 7.0E-02                          | c                 | 7.0E+00                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | 8.7E+01                                         | c                 | 3.5E-02                          | c                 | 3.5E+00                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nitrotoluene, p-                            | 99-99-0    | 1.2E+03                                         | c                 | 9.6E-01                          | c                 | 9.6E+01                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.2E+03                                         | c                 | 4.8E-01                          | c                 | 4.8E+01                              | c                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nonachlor, cis-                             | 5103-73-1  | 5.3E+01                                         | c                 | 2.8E+01                          | c                 | 2.8E+03                              | c >S              | 2.1E+03                                                     | c                 | 1.0E+06                                           | c >S              | —                                         | 5.2E+01                                         | c                 | 1.4E+01                          | c                 | 1.4E+03                              | c >S              | 1.1E+03                                                     | c                 | 4.0E+05                                           | c >S              | —                                         | — |
| Nonachlor, trans-                           | 39765-80-5 | 5.3E+01                                         | c                 | 2.8E+01                          | c                 | 2.8E+03                              | c >S              | 2.1E+03                                                     | c                 | 1.0E+06                                           | c >S              | —                                         | 5.2E+01                                         | c                 | 1.4E+01                          | c                 | 1.4E+03                              | c >S              | 1.1E+03                                                     | c                 | 4.0E+05                                           | c >S              | —                                         | — |
| Nonanal                                     | 124-19-6   | 1.4E+05                                         | n                 | 4.4E+02                          | n                 | 4.4E+04                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | 1.4E+05                                         | n                 | 2.2E+02                          | n                 | 2.2E+04                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nonene, 1-n                                 | 124-11-8   | 1.0E+05                                         | n                 | 9.9E+03                          | n >S              | 9.9E+05                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | 1.0E+05                                         | n                 | 4.9E+03                          | n >S              | 4.9E+05                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nonylphenol, 4-n-                           | 104-40-5   | 6.8E+04                                         | n                 | 8.8E+05                          | n >S              | 1.0E+06                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | 6.8E+04                                         | n                 | 4.4E+05                          | n >S              | 1.0E+06                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Nonylphenol ethoxylate                      | 9016-45-9  | 6.8E+04                                         | n                 | 1.0E+06                          | n >S              | 1.0E+06                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | 6.8E+04                                         | n                 | 1.0E+06                          | n >S              | 1.0E+06                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Octamethylpyrophosphoramide                 | 152-16-9   | 1.4E+03                                         | n                 | 2.8E-01                          | n                 | 2.8E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.4E+03                                         | n                 | 1.4E-01                          | n                 | 1.4E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Octanone                                    | 106-68-3   | 5.8E+04                                         | n                 | 3.3E+01                          | n                 | 3.3E+03                              | n                 | 1.0E+06                                                     | n                 | 1.0E+06                                           | n >S              | —                                         | 5.6E+04                                         | n                 | 1.6E+01                          | n                 | 1.6E+03                              | n                 | 6.5E+05                                                     | n                 | 1.0E+06                                           | n >S              | —                                         | — |
| Oxamyl                                      | 23135-22-0 | 1.7E+04                                         | n                 | 4.2E-01                          | m                 | 4.2E+01                              | m                 | —                                                           | —                 | —                                                 | —                 | —                                         | 1.7E+04                                         | n                 | 2.1E-01                          | m                 | 2.1E+01                              | m                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Oxychlordan                                 | 27304-13-8 | 5.3E+01                                         | c                 | 2.8E+01                          | c                 | 2.8E+03                              | c >S              | 2.1E+03                                                     | c                 | 1.0E+06                                           | c >S              | —                                         | 5.2E+01                                         | c                 | 1.4E+01                          | c                 | 1.4E+03                              | c >S              | 1.1E+03                                                     | c                 | 4.0E+05                                           | c >S              | —                                         | — |
| Paraquat                                    | 1910-42-5  | 3.1E+03                                         | n                 | 6.3E-01                          | n                 | 6.3E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | 3.1E+03                                         | n                 | 3.1E-01                          | n                 | 3.1E+01                              | n                 | —                                                           | —                 | —                                                 | —                 | —                                         | — |
| Parathion (ethyl parathion)                 | 56-38-2    | 4.1E+03                                         | n                 | 9.9E+01                          | n                 | 9.9E+03                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | 4.1E+03                                         | n                 | 4.9E+01                          | n                 | 4.9E+03                              | n >S              | —                                                           | —                 | —                                                 | —                 | —                                         | — |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                              | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                  |                   |                                        |                   | 30 acre source area                       |                                                 |                   |                                 |                   |                                      |                   |                                                  |                   |                                        |                   |                                           |
|----------------------------------------------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------------------------------|
|                                                                                  |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>inh-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>inh-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>inh-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for<br>Secondary<br>MCL<br>(mg/kg) |
| Pebulate                                                                         | 1114-71-2  | 3.4E+04                                         | n                 | 7.0E+01                         | n                 | 7.0E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 3.4E+04                                         | n                 | 3.5E+01                         | n                 | 3.5E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Pendimethalin                                                                    | 40487-42-1 | 2.7E+04                                         | n                 | 2.2E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 2.7E+04                                         | n                 | 1.1E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Pentachlorobenzene                                                               | 608-93-5   | 5.5E+02                                         | n                 | 7.4E+01                         | n                 | 7.4E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 5.5E+02                                         | n                 | 3.7E+01                         | n                 | 3.7E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Pentachloroethane                                                                | 76-01-7    | 1.1E+02                                         | c                 | 2.2E-01                         | c                 | 2.2E+01                              | c                 | 1.6E+02                                          | c                 | 4.8E+03                                | c                 | —                                         | 6.5E+01                                         | c                 | 1.1E-01                         | c                 | 1.1E+01                              | c                 | 8.1E+01                                          | c                 | 3.1E+02                                | c                 | —                                         |
| Pentachloronitrobenzene                                                          | 82-68-8    | 7.3E+01                                         | c                 | 4.1E+00                         | c                 | 4.1E+02                              | c >S              | —                                                | —                 | —                                      | —                 | —                                         | 7.3E+01                                         | c                 | 2.1E+00                         | c                 | 2.1E+02                              | c >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Pentachlorophenol                                                                | 87-86-5    | 3.2E+01                                         | c                 | 1.8E-02                         | m                 | 1.8E+00                              | m                 | —                                                | —                 | —                                      | —                 | —                                         | 3.2E+01                                         | c                 | 9.2E-03                         | m                 | 9.2E-01                              | m                 | —                                                | —                 | —                                      | —                 | —                                         |
| Pentadiene, 1,3-cis-                                                             | 1574-41-0  | 5.3E+04                                         | n                 | 5.6E+01                         | n                 | 5.6E+03                              | n                 | 3.9E+05                                          | n                 | 7.7E+05                                | n >S              | —                                         | 4.7E+04                                         | n                 | 2.8E+01                         | n                 | 2.8E+03                              | n                 | 2.0E+05                                          | n                 | 5.0E+04                                | n >S              | —                                         |
| Pentadiene, 1,3-trans-                                                           | 2004-70-8  | 5.3E+04                                         | n                 | 3.9E+01                         | n                 | 3.9E+03                              | n                 | 3.9E+05                                          | n                 | 9.3E+05                                | n >S              | —                                         | 4.7E+04                                         | n                 | 1.9E+01                         | n                 | 1.9E+03                              | n                 | 2.0E+05                                          | n                 | 6.0E+04                                | n >S              | —                                         |
| Pentaerythritol tetranitrate (PETN)                                              | 78-11-5    | 1.4E+03                                         | n                 | 3.7E+01                         | n                 | 3.7E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 1.4E+03                                         | n                 | 1.8E+01                         | n                 | 1.8E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Pentane                                                                          | 109-66-0   | 5.5E+04                                         | n                 | 1.0E+03                         | n                 | 1.0E+05                              | n >S              | 5.2E+05                                          | n                 | 1.1E+05                                | n >S              | —                                         | 5.0E+04                                         | n                 | 5.2E+02                         | n                 | 5.2E+04                              | n >S              | 2.7E+05                                          | n                 | 7.3E+03                                | n >S              | —                                         |
| Pentane, 2-methyl-                                                               | 107-83-5   | 5.3E+04                                         | n                 | 1.1E+03                         | n                 | 1.1E+05                              | n >S              | 3.9E+05                                          | n                 | 6.4E+05                                | n >S              | —                                         | 4.7E+04                                         | n                 | 5.7E+02                         | n                 | 5.7E+04                              | n >S              | 2.0E+05                                          | n                 | 4.1E+04                                | n >S              | —                                         |
| Pentane, 3-methyl-                                                               | 96-14-0    | 5.3E+04                                         | n                 | 9.3E+02                         | n                 | 9.3E+04                              | n >S              | 3.9E+05                                          | n                 | 6.6E+05                                | n >S              | —                                         | 4.7E+04                                         | n                 | 4.7E+02                         | n                 | 4.7E+04                              | n >S              | 2.0E+05                                          | n                 | 4.3E+04                                | n >S              | —                                         |
| Pentenediol, 1,5-                                                                | 111-29-5   | 1.0E+06                                         | n                 | 7.2E+02                         | n                 | 7.2E+04                              | n                 | 1.0E+06                                          | n                 | 1.0E+06                                | n >S              | —                                         | 1.0E+06                                         | n                 | 3.6E+02                         | n                 | 3.6E+04                              | n                 | 1.0E+06                                          | n                 | 9.9E+05                                | n >S              | —                                         |
| Pentanol, 1-                                                                     | 71-41-0    | 3.4E+04                                         | n                 | 6.8E+00                         | n                 | 6.8E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 3.4E+04                                         | n                 | 3.4E+00                         | n                 | 3.4E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Pentanol, 4-methyl-2-                                                            | 108-11-2   | 2.7E+04                                         | n                 | 5.3E+00                         | n                 | 5.3E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 2.7E+04                                         | n                 | 2.6E+00                         | n                 | 2.6E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Pentanone, 2-                                                                    | 107-87-9   | 4.1E+04                                         | n                 | 6.6E+00                         | n                 | 6.6E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 4.1E+04                                         | n                 | 3.3E+00                         | n                 | 3.3E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Pentene, 2-                                                                      | 109-68-2   | 5.3E+04                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n >S              | 3.9E+05                                          | n                 | 6.2E+05                                | n >S              | —                                         | 4.7E+04                                         | n                 | 7.0E+01                         | n                 | 7.0E+03                              | n >S              | 2.0E+05                                          | n                 | 4.0E+04                                | n >S              | —                                         |
| Pentyne, 1-                                                                      | 627-19-0   | 5.3E+04                                         | n                 | 3.8E+01                         | n                 | 3.8E+03                              | n                 | 3.9E+05                                          | n                 | 8.7E+05                                | n >S              | —                                         | 4.7E+04                                         | n                 | 1.9E+01                         | n                 | 1.9E+03                              | n                 | 2.0E+05                                          | n                 | 5.6E+04                                | n >S              | —                                         |
| Perchlorate                                                                      | 14797-73-0 | 5.7E+02                                         | n                 | 4.2E-01                         | n                 | 4.2E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 5.7E+02                                         | n                 | 2.1E-01                         | n                 | 2.1E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | 1.5E+01                                         | n                 | 1.5E-01                         | n                 | 1.5E+01                              | n                 | 2.2E+02                                          | n                 | 2.3E+05                                | n >S              | —                                         | 1.4E+01                                         | n                 | 7.5E-02                         | n                 | 7.5E+00                              | n                 | 1.1E+02                                          | n                 | 1.5E+04                                | n                 | —                                         |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDA]               | 2058-94-8  | 8.2E+00                                         | n                 | 5.5E-02                         | n                 | 5.5E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 8.2E+00                                         | n                 | 2.7E-02                         | n                 | 2.7E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                    | 2706-90-3  | 3.4E+02                                         | n                 | 1.3E-01                         | n                 | 1.3E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 3.4E+02                                         | n                 | 6.3E-02                         | n                 | 6.3E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                    | 307-24-4   | 3.4E+02                                         | n                 | 1.9E-01                         | n                 | 1.9E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 3.4E+02                                         | n                 | 9.4E-02                         | n                 | 9.4E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Perfluorododecanoic acid (Dodecanoic acid, tricosafafluoro-) [PFDoA]             | 307-55-1   | 7.5E+00                                         | n                 | 1.0E-01                         | n                 | 1.0E+01                              | n >S              | 9.7E+01                                          | n                 | 8.8E+04                                | n >S              | —                                         | 7.0E+00                                         | n                 | 5.0E-02                         | n                 | 5.0E+00                              | n >S              | 5.0E+01                                          | n                 | 5.7E+03                                | n >S              | —                                         |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                  | 335-67-1   | 2.4E+00                                         | n                 | 8.8E-03                         | n                 | 8.8E-01                              | n                 | 3.4E+00                                          | n                 | 1.3E+03                                | n                 | —                                         | 1.4E+00                                         | n                 | 4.4E-03                         | n                 | 4.4E-01                              | n                 | 1.7E+00                                          | n                 | 8.3E+01                                | n                 | —                                         |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                   | 335-76-2   | 9.4E+00                                         | n                 | 6.7E-02                         | n                 | 6.7E+00                              | n                 | 1.2E+02                                          | n                 | 1.1E+05                                | n >S              | —                                         | 8.8E+00                                         | n                 | 3.3E-02                         | n                 | 3.3E+00                              | n                 | 6.2E+01                                          | n                 | 7.1E+03                                | n >S              | —                                         |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafafluoro-) [PFDS] | 335-77-3   | 8.2E+00                                         | n                 | 1.2E-01                         | n                 | 1.2E+01                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 8.2E+00                                         | n                 | 6.0E-02                         | n                 | 6.0E+00                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, triddecafluoro-) [PFHxS]   | 355-46-4   | 2.2E+00                                         | n                 | 6.1E-03                         | n                 | 6.1E-01                              | n                 | 1.6E+01                                          | n                 | 8.8E+03                                | n >S              | —                                         | 2.0E+00                                         | n                 | 3.0E-03                         | n                 | 3.0E-01                              | n                 | 8.2E+00                                          | n                 | 8.7E+02                                | n                 | —                                         |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                       | 375-22-4   | 4.0E+02                                         | n                 | 2.0E-01                         | n                 | 2.0E+01                              | n                 | 9.6E+02                                          | n                 | 1.0E+06                                | n                 | —                                         | 2.9E+02                                         | n                 | 1.0E-01                         | n                 | 1.0E+01                              | n                 | 4.9E+02                                          | n                 | 4.8E+05                                | n                 | —                                         |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]        | 375-73-5   | 6.0E+02                                         | n                 | 3.2E-01                         | n                 | 3.2E+01                              | n                 | 1.6E+03                                          | n                 | 1.0E+06                                | n >S              | —                                         | 4.4E+02                                         | n                 | 1.6E-01                         | n                 | 1.6E+01                              | n                 | 8.2E+02                                          | n                 | 1.0E+06                                | n >S              | —                                         |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]                 | 375-85-9   | 1.6E+01                                         | n                 | 1.4E-02                         | n                 | 1.4E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 1.6E+01                                         | n                 | 6.8E-03                         | n                 | 6.8E-01                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]                  | 375-95-1   | 6.1E+00                                         | n                 | 9.2E-03                         | n                 | 9.2E-01                              | n                 | 2.4E+01                                          | n                 | 9.5E+03                                | n >S              | —                                         | 4.9E+00                                         | n                 | 4.6E-03                         | n                 | 4.6E-01                              | n                 | 1.2E+01                                          | n                 | 6.2E+02                                | n >S              | —                                         |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosafafluoro-) [PFTeDA]    | 376-06-7   | 8.2E+00                                         | n                 | 3.4E-01                         | n                 | 3.4E+01                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 8.2E+00                                         | n                 | 1.7E-01                         | n                 | 1.7E+01                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosafafluoro-) [PFTriDA]       | 72629-94-8 | 8.2E+00                                         | n                 | 1.8E-01                         | n                 | 1.8E+01                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 8.2E+00                                         | n                 | 9.1E-02                         | n                 | 9.1E+00                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA]      | 754-91-6   | 8.7E-02                                         | n                 | 2.8E+00                         | n                 | 2.8E+02                              | n >S              | 8.8E-02                                          | n                 | 2.3E-01                                | n                 | —                                         | 4.5E-02                                         | n                 | 1.4E+00                         | n                 | 1.4E+02                              | n >S              | 4.5E-02                                          | n                 | 1.5E-02                                | n                 | —                                         |
| Perylene                                                                         | 198-55-0   | 1.4E+04                                         | n                 | 2.3E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 1.4E+04                                         | n                 | 1.1E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Phenacetin                                                                       | 62-44-2    | 5.9E+03                                         | c                 | 2.8E+00                         | c                 | 2.8E+02                              | c                 | 1.8E+04                                          | c                 | 1.0E+06                                | c >S              | —                                         | 4.5E+03                                         | c                 | 1.4E+00                         | c                 | 1.4E+02                              | c                 | 9.4E+03                                          | c                 | 3.8E+05                                | c >S              | —                                         |
| Phenanthrene                                                                     | 85-01-8    | 1.9E+04                                         | n                 | 1.2E+03                         | n >S              | 1.2E+05                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 1.9E+04                                         | n                 | 6.2E+02                         | n >S              | 6.2E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Phenanthridine                                                                   | 229-87-8   | 2.0E+03                                         | n                 | 1.6E+01                         | n                 | 1.6E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 2.0E+03                                         | n                 | 7.9E+00                         | n                 | 7.9E+02                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Phenol                                                                           | 108-95-2   | 2.7E+03                                         | n                 | 5.7E+01                         | n                 | 5.7E+03                              | n                 | 2.7E+03                                          | n                 | 5.8E+05                                | n >S              | —                                         | 1.4E+03                                         | n                 | 2.9E+01                         | n                 | 2.9E+03                              | n                 | 1.4E+03                                          | n                 | 3.8E+04                                | n                 | —                                         |
| Phenol, 4-tert-butyl-                                                            | 98-54-4    | 8.2E+04                                         | n                 | 3.2E+02                         | n                 | 3.2E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 8.2E+04                                         | n                 | 1.6E+02                         | n                 | 1.6E+04                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Phenothiazine                                                                    | 92-84-2    | 7.5E+02                                         | n                 | 2.4E+01                         | n >S              | 2.4E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         | 7.5E+02                                         | n                 | 1.2E+01                         | n >S              | 1.2E+03                              | n >S              | —                                                | —                 | —                                      | —                 | —                                         |
| Phenyl mercuric acetate                                                          | 62-38-4    | 5.5E+01                                         | n                 | 4.9E-02                         | n                 | 4.9E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 5.5E+01                                         | n                 | 2.4E-02                         | n                 | 2.4E+00                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Phenylene diamine, m-                                                            | 108-45-2   | 4.1E+03                                         | n                 | 8.6E-01                         | n                 | 8.6E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 4.1E+03                                         | n                 | 4.3E-01                         | n                 | 4.3E+01                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |
| Phenylene diamine, p-                                                            | 106-50-3   | 1.3E+05                                         | n                 | 2.7E+01                         | n                 | 2.7E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                         | 1.3E+05                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | —                                                | —                 | —                                      | —                 | —                                         |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   | 30 acre source area                 |                                                 |                   |                                 |                   |                                      |                   |                                                   |                   |                                         |                   |                                     |         |
|-----------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|-------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------------|-------------------|-------------------------------------|---------|
|                                               |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>10th-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>10th-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>10th-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>10th-V</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil for Secondary MCL<br>(mg/kg) |         |
| Phorate                                       | 298-02-2   | 1.4E+02                                         | n                 | 3.2E+00                         | n                 | 3.2E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+02                                         | n                 | 1.6E+00                         | n                 | 1.6E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Phosalone                                     | 2310-17-0  | 1.4E+03                                         | n                 | 7.0E+00                         | n                 | 7.0E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+03                                         | n                 | 3.5E+00                         | n                 | 3.5E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Phosdrin (mevinphos)                          | 7786-34-7  | 1.7E+01                                         | n                 | 3.5E-03                         | n                 | 3.5E-01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.7E+01                                         | n                 | 1.8E-03                         | n                 | 1.8E-01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Phosmet                                       | 732-11-6   | 1.4E+04                                         | n                 | 1.2E+01                         | n                 | 1.2E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+04                                         | n                 | 6.1E+00                         | n                 | 6.1E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Phosphine                                     | 7803-51-2  | 6.3E+00                                         | n                 | —                               | —                 | —                                    | —                 | 6.4E+00                                           | n                 | —                                       | —                 | —                                   | 3.3E+00                                         | n                 | —                               | —                 | —                                    | —                 | 3.3E+00                                           | n                 | —                                       | —                 | —                                   | —       |
| Phosphorotrithioic acid, S,S,S-tributyl ester | 78-48-8    | 2.3E+02                                         | c                 | 9.7E+02                         | c >S              | 9.7E+04                              | c >S              | —                                                 | —                 | —                                       | —                 | —                                   | 2.3E+02                                         | c                 | 4.8E+02                         | c >S              | 4.8E+04                              | c >S              | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Phosphorus, total*                            | 7723-14-0  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   |         |
| Phosphorus, white                             | 7723-14-0  | 1.6E+01                                         | n                 | 6.9E-02                         | n                 | 6.9E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.6E+01                                         | n                 | 3.4E-02                         | n                 | 3.4E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Phthalic anhydride                            | 85-44-9    | 6.6E+04                                         | n                 | 7.4E+02                         | n                 | 7.4E+04                              | n >S              | 7.0E+04                                           | n                 | 1.0E+06                                 | n >S              | —                                   | 3.5E+04                                         | n                 | 3.7E+02                         | n                 | 3.7E+04                              | n >S              | 3.6E+04                                           | n                 | 1.0E+06                                 | n >S              | —                                   | —       |
| Picloram                                      | 1918-02-1  | 4.8E+04                                         | n                 | 9.8E-01                         | m                 | 9.8E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 4.8E+04                                         | n                 | 4.9E-01                         | m                 | 4.9E+01                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Picoline, 2- (2-methylpyridine)               | 109-06-8   | 9.2E+03                                         | n                 | 1.7E+00                         | n                 | 1.7E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 9.2E+03                                         | n                 | 8.4E-01                         | n                 | 8.4E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Polybrominated biphenyls (PBBs)               | 67774-32-7 | 2.1E+00                                         | c                 | 2.0E-02                         | c                 | 2.0E+00                              | c >S              | —                                                 | —                 | —                                       | —                 | —                                   | 2.1E+00                                         | c                 | 1.0E-02                         | c                 | 1.0E+00                              | c >S              | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Polychlorinated biphenyls (PCBs)              | 1336-36-3  | 7.7E+00                                         | c                 | 1.1E+01                         | m                 | 1.1E+03                              | m                 | 9.1E+01                                           | c                 | 1.0E+05                                 | c >S              | —                                   | 7.1E+00                                         | c                 | 5.3E+00                         | m                 | 5.3E+02                              | m                 | 4.7E+01                                           | c                 | 6.8E+03                                 | c >S              | —                                   | —       |
| Potassium*                                    | 7440-09-7  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   |         |
| Primene                                       | 68955-53-3 | 4.1E+03                                         | n                 | 1.6E+02                         | n                 | 1.6E+04                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 4.1E+03                                         | n                 | 8.1E+01                         | n                 | 8.1E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Prometon (pramitol)                           | 1610-18-0  | 1.0E+04                                         | n                 | 2.9E+01                         | n                 | 2.9E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 1.0E+04                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Prometryn                                     | 7287-19-6  | 2.7E+04                                         | n                 | 2.9E+02                         | n                 | 2.9E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 2.7E+04                                         | n                 | 1.5E+02                         | n                 | 1.5E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Pronamide                                     | 23950-58-5 | 5.1E+04                                         | n                 | 5.4E+01                         | n                 | 5.4E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 5.1E+04                                         | n                 | 2.7E+01                         | n                 | 2.7E+03                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propanal (propionaldehyde)                    | 123-38-6   | 1.7E+02                                         | n                 | 1.2E+00                         | n                 | 1.2E+02                              | n                 | 1.7E+02                                           | n                 | 4.6E+03                                 | n                 | —                                   | 8.7E+01                                         | n                 | 5.9E-01                         | n                 | 5.9E+01                              | n                 | 8.8E+01                                           | n                 | 3.0E+02                                 | n                 | —                                   | —       |
| Propane, 1-bromo-                             | 106-94-5   | 3.7E+04                                         | n                 | 1.0E+01                         | n                 | 1.0E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 3.7E+04                                         | n                 | 5.1E+00                         | n                 | 5.1E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propanil                                      | 709-98-8   | 3.4E+03                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 3.4E+03                                         | n                 | 6.9E+00                         | n                 | 6.9E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propanoic acid (propionic acid)               | 79-09-4    | 5.1E+05                                         | n                 | 7.0E+01                         | n                 | 7.0E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 5.1E+05                                         | n                 | 3.5E+01                         | n                 | 3.5E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propanol, 1-                                  | 71-23-8    | 1.0E+06                                         | n                 | 3.0E+02                         | n                 | 3.0E+04                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.0E+06                                         | n                 | 1.5E+02                         | n                 | 1.5E+04                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propargite                                    | 2312-35-8  | 1.4E+04                                         | n                 | 3.3E+02                         | n >S              | 3.3E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+04                                         | n                 | 1.6E+02                         | n >S              | 1.6E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propargyl alcohol                             | 107-19-7   | 2.0E+03                                         | n                 | 3.1E-01                         | n                 | 3.1E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 2.0E+03                                         | n                 | 1.6E-01                         | n                 | 1.6E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propazine                                     | 139-40-2   | 4.3E+02                                         | c                 | 2.1E+00                         | c                 | 2.1E+02                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   | 4.3E+02                                         | c                 | 1.1E+00                         | c                 | 1.1E+02                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propham                                       | 122-42-9   | 1.4E+04                                         | n                 | 5.8E+00                         | n                 | 5.8E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.4E+04                                         | n                 | 2.9E+00                         | n                 | 2.9E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propionitrile (propane nitrile)               | 107-12-0   | 4.1E+02                                         | n                 | 5.8E-02                         | n                 | 5.8E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 4.1E+02                                         | n                 | 2.9E-02                         | n                 | 2.9E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propyl acetate, n-                            | 109-60-4   | 9.2E+04                                         | n                 | 1.6E+01                         | n                 | 1.6E+03                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 9.2E+04                                         | n                 | 7.9E+00                         | n                 | 7.9E+02                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Propylbenzene, n-                             | 103-65-1   | 7.3E+03                                         | n                 | 1.3E+02                         | n                 | 1.3E+04                              | n >S              | 8.9E+03                                           | n                 | 3.9E+05                                 | n >S              | —                                   | 4.1E+03                                         | n                 | 6.7E+01                         | n                 | 6.7E+03                              | n >S              | 4.6E+03                                           | n                 | 2.5E+04                                 | n >S              | —                                   | —       |
| Propylene glycol                              | 57-55-6    | 5.1E+02                                         | n                 | 2.8E+03                         | n                 | 2.8E+05                              | n >S              | 5.1E+02                                           | n                 | 1.3E+05                                 | n                 | —                                   | 2.6E+02                                         | n                 | 1.4E+03                         | n                 | 1.4E+05                              | n >S              | 2.6E+02                                           | n                 | 8.7E+03                                 | n                 | —                                   | —       |
| Propylene glycol monomethyl ether             | 107-98-2   | 2.2E+05                                         | n                 | 9.9E+01                         | n                 | 9.9E+03                              | n                 | 3.2E+05                                           | n                 | 1.0E+06                                 | n >S              | —                                   | 1.3E+05                                         | n                 | 5.0E+01                         | n                 | 5.0E+03                              | n                 | 1.7E+05                                           | n                 | 9.7E+05                                 | n >S              | —                                   | —       |
| Propylene oxide                               | 75-56-9    | 6.9E+01                                         | c                 | 1.7E-02                         | c                 | 1.7E+00                              | c                 | 1.6E+02                                           | c                 | 5.3E+03                                 | c                 | —                                   | 4.9E+01                                         | c                 | 8.4E-03                         | c                 | 8.4E-01                              | c                 | 8.4E+01                                           | c                 | 3.4E+02                                 | c                 | —                                   | —       |
| Propylene tetramer                            | 6842-15-5  | 1.6E+04                                         | n                 | 7.6E+04                         | n >S              | 1.0E+06                              | n >S              | 2.1E+04                                           | n                 | 6.4E+05                                 | n >S              | —                                   | 9.5E+03                                         | n                 | 3.8E+04                         | n >S              | 1.0E+06                              | n >S              | 1.1E+04                                           | n                 | 4.1E+04                                 | n >S              | —                                   | —       |
| Prothiofos (Tokuthion)                        | 34643-46-4 | 6.8E+01                                         | n                 | 7.2E+03                         | n >S              | 7.2E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 6.8E+01                                         | n                 | 3.6E+03                         | n >S              | 3.6E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Pyrene                                        | 129-00-0   | 1.9E+04                                         | n                 | 3.3E+03                         | n >S              | 3.3E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 1.9E+04                                         | n                 | 1.7E+03                         | n >S              | 1.7E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Pyridine                                      | 110-86-1   | 1.0E+03                                         | n                 | 2.1E-01                         | n                 | 2.1E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.0E+03                                         | n                 | 1.0E-01                         | n                 | 1.0E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Quinoline                                     | 91-22-5    | 6.4E+00                                         | c                 | 1.7E-02                         | c                 | 1.7E+00                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   | 6.4E+00                                         | c                 | 8.4E-03                         | c                 | 8.4E-01                              | c                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Ronnel                                        | 299-84-3   | 3.4E+04                                         | n                 | 1.2E+03                         | n >S              | 1.2E+05                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 3.4E+04                                         | n                 | 6.2E+02                         | n >S              | 6.2E+04                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Safrole                                       | 94-59-7    | 4.9E+01                                         | c                 | 3.7E-01                         | c                 | 3.7E+01                              | c                 | 1.1E+02                                           | c                 | 1.3E+04                                 | c >S              | —                                   | 3.5E+01                                         | c                 | 1.8E-01                         | c                 | 1.8E+01                              | c                 | 5.8E+01                                           | c                 | 8.1E+02                                 | c                 | —                                   | —       |
| Selenium                                      | 7782-49-2  | 4.9E+03                                         | n                 | 2.3E+00                         | m >S              | 2.3E+02                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                   | 4.9E+03                                         | n                 | 1.1E+00                         | m >S              | 1.1E+02                              | m >S              | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Selenourea                                    | 630-10-4   | 5.1E+03                                         | n                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | 5.1E+03                                         | n                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Silver                                        | 7440-22-4  | 2.3E+03                                         | n                 | 1.4E+00                         | n >S              | 1.4E+02                              | n >S              | —                                                 | —                 | —                                       | —                 | 3.9E-01                             | 2.3E+03                                         | n                 | 7.1E-01                         | n >S              | 7.1E+01                              | n >S              | —                                                 | —                 | —                                       | —                 | —                                   | 2.0E-01 |
| Simazine                                      | 122-34-9   | 1.6E+02                                         | c                 | 5.5E-02                         | m                 | 5.5E+00                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | 1.6E+02                                         | c                 | 2.8E-02                         | m                 | 2.8E+00                              | m                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Sodium*                                       | 7440-23-5  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Sodium hypochlorite                           | 7681-52-9  | 1.2E+05                                         | n                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | 9.6E+04                                         | n                 | —                               | —                 | —                                    | —                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Sodium polyacrylate                           | 9003-04-7  | 1.7E+02                                         | n                 | 7.2E+01                         | n                 | 7.2E+03                              | n                 | 1.7E+02                                           | n                 | 4.1E+04                                 | n                 | —                                   | 8.7E+01                                         | n                 | 3.6E+01                         | n                 | 3.6E+03                              | n                 | 8.7E+01                                           | n                 | 2.7E+03                                 | n                 | —                                   | —       |
| Strontium                                     | 7440-24-6  | 4.9E+05                                         | n                 | 1.8E+03                         | n                 | 1.8E+05                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 4.9E+05                                         | n                 | 9.2E+02                         | n                 | 9.2E+04                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Strychnine                                    | 57-24-9    | 2.0E+02                                         | n                 | 1.1E-01                         | n                 | 1.1E+01                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | 2.0E+02                                         | n                 | 5.6E-02                         | n                 | 5.6E+00                              | n                 | —                                                 | —                 | —                                       | —                 | —                                   | —       |
| Styrene                                       | 100-42-5   | 1.5E+04                                         | n                 | 3.3E+00                         | m                 | 3.3E+02                              | m                 | 1.6E+04                                           | n                 | 6.9E+05                                 | n >S              | —                                   | 7.8E+03                                         | n                 | 1.6E+00                         | m                 | 1.6E+02                              | m                 | 8.1E+03                                           | n                 | 4.5E+04                                 | n >S              | —                                   | —       |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                       | CAS         | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                    |                   |                                          |                   | 30 acre source area                 |                                                 |                   |                                 |                   |                                      |                   |                                                    |                   |                                          |                   |                                     |
|-------------------------------------------|-------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|----------------------------------------------------|-------------------|------------------------------------------|-------------------|-------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|----------------------------------------------------|-------------------|------------------------------------------|-------------------|-------------------------------------|
|                                           |             | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>1st-h-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>1st-h-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for Secondary MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil <sub>class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>1st-h-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>1st-h-V</sub><br>(mg/kg) | note <sup>3</sup> | gWSoil for Secondary MCL<br>(mg/kg) |
| Sulfate*                                  | 14808-79-8  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Sulfide*                                  | 18496-25-8  | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Sulfolane                                 | 126-33-0    | 1.1E+03                                         | n                 | 1.8E+00                         | n                 | 1.8E+02                              | n                 | 1.2E+03                                            | n                 | 3.5E+05                                  | n >S              | —                                   | 5.8E+02                                         | n                 | 9.1E-01                         | n                 | 9.1E+01                              | n                 | 6.2E+02                                            | n                 | 2.2E+04                                  | n >S              | —                                   |
| Sulfur*                                   | 7704-34-9   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   | —                                               | —                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Sulprofos (Bolstar)                       | 35400-43-2  | 2.0E+03                                         | n                 | 2.3E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+03                                         | n                 | 1.1E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Tebuconazole                              | 107534-96-3 | 2.0E+04                                         | n                 | 9.4E+01                         | n                 | 9.4E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+04                                         | n                 | 4.7E+01                         | n                 | 4.7E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Tebuthiuron                               | 34014-18-1  | 4.8E+04                                         | n                 | 1.6E+01                         | n                 | 1.6E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 4.8E+04                                         | n                 | 8.1E+00                         | n                 | 8.1E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Terbufos                                  | 13071-79-9  | 1.7E+01                                         | n                 | 1.0E+00                         | n                 | 1.0E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 1.7E+01                                         | n                 | 5.0E-01                         | n                 | 5.0E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tert-amyl ethyl ether (TAEE)              | 919-94-8    | 4.1E+04                                         | n                 | 2.8E+01                         | n                 | 2.8E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 4.1E+04                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tert-amyl-methyl ether (TAME)             | 994-05-8    | 4.1E+04                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 4.1E+04                                         | n                 | 5.7E+00                         | n                 | 5.7E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0     | 3.0E+05                                         | n                 | 1.1E+02                         | n                 | 1.1E+04                              | n                 | 5.1E+05                                            | n                 | 1.0E+06                                  | n >S              | —                                   | 1.9E+05                                         | n                 | 5.3E+01                         | n                 | 5.3E+03                              | n                 | 2.6E+05                                            | n                 | 1.0E+06                                  | n >S              | —                                   |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2    | 2.0E+02                                         | n                 | 3.6E+01                         | n                 | 3.6E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+02                                         | n                 | 1.8E+01                         | n                 | 1.8E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2    | 2.0E+02                                         | n                 | 5.6E+00                         | n                 | 5.6E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+02                                         | n                 | 2.8E+00                         | n                 | 2.8E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3     | 2.0E+02                                         | n                 | 1.4E+00                         | n                 | 1.4E+02                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+02                                         | n                 | 7.2E-01                         | n                 | 7.2E+01                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6    | 1.3E+02                                         | c                 | 3.2E+00                         | c                 | 3.2E+02                              | c                 | 1.5E+02                                            | c                 | 7.5E+03                                  | c                 | —                                   | 7.3E+01                                         | c                 | 1.6E+00                         | c                 | 1.6E+02                              | c                 | 7.8E+01                                            | c                 | 4.9E+02                                  | c                 | —                                   |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5     | 1.4E+02                                         | c                 | 5.2E-02                         | c                 | 5.2E+00                              | c                 | —                                                  | —                 | —                                        | —                 | —                                   | 1.4E+02                                         | c                 | 2.6E-02                         | c                 | 2.6E+00                              | c                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetrachloroethylene [PCE]                 | 127-18-4    | 1.4E+03                                         | c                 | 5.0E-02                         | m                 | 5.0E+00                              | m                 | 1.6E+03                                            | c                 | 8.4E+03                                  | c >S              | —                                   | 7.7E+02                                         | c                 | 2.5E-02                         | m                 | 2.5E+00                              | m                 | 8.1E+02                                            | c                 | 5.4E+02                                  | c                 | —                                   |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3   | 2.0E+04                                         | n                 | 4.4E+01                         | n                 | 4.4E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+04                                         | n                 | 2.2E+01                         | n                 | 2.2E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2     | 2.0E+04                                         | n                 | 1.3E+01                         | n                 | 1.3E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+04                                         | n                 | 6.7E+00                         | n                 | 6.7E+02                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5    | 2.0E+04                                         | n                 | 6.5E+00                         | n >S              | 6.5E+02                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+04                                         | n                 | 3.2E+00                         | n >S              | 3.2E+02                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetrachlorvinphos (Stirophos)             | 22248-79-9  | 2.9E+04                                         | n                 | 7.1E+03                         | n                 | 7.1E+05                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 2.9E+04                                         | n                 | 3.5E+03                         | n                 | 3.5E+05                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetradifon                                | 116-29-0    | 1.4E+04                                         | n                 | 2.6E+02                         | n >S              | 2.6E+04                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 1.4E+04                                         | n                 | 1.3E+02                         | n >S              | 1.3E+04                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5   | 3.4E+02                                         | n                 | 1.2E+00                         | n                 | 1.2E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 3.4E+02                                         | n                 | 5.8E-01                         | n                 | 5.8E+01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetraethyl lead                           | 78-00-2     | 6.8E-02                                         | n                 | 1.5E-03                         | n                 | 1.5E-01                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 6.8E-02                                         | n                 | 7.5E-04                         | n                 | 7.5E-02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3    | 7.5E+00                                         | n                 | 2.8E-02                         | n                 | 2.8E+00                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 7.5E+00                                         | n                 | 1.4E-02                         | n                 | 1.4E+00                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetraethylene glycol                      | 112-60-7    | 2.2E+05                                         | n                 | 4.6E+01                         | n                 | 4.6E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 2.2E+05                                         | n                 | 2.3E+01                         | n                 | 2.3E+03                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Tetrahydrofuran                           | 109-99-9    | 2.9E+02                                         | c                 | 5.6E-01                         | c                 | 5.6E+01                              | c                 | 3.2E+02                                            | c                 | 7.8E+03                                  | c                 | —                                   | 1.6E+02                                         | c                 | 2.8E-01                         | c                 | 2.8E+01                              | c                 | 1.6E+02                                            | c                 | 5.0E+02                                  | c                 | —                                   |
| Tetrahydrofuran                           | 142-68-7    | 3.1E+02                                         | c                 | 6.1E-01                         | c                 | 6.1E+01                              | c                 | 3.4E+02                                            | c                 | 1.0E+04                                  | c                 | —                                   | 1.7E+02                                         | c                 | 3.0E-01                         | c                 | 3.0E+01                              | c                 | 1.7E+02                                            | c                 | 6.5E+02                                  | c                 | —                                   |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2    | 1.7E+04                                         | n                 | 5.1E+00                         | n                 | 5.1E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 1.7E+04                                         | n                 | 2.6E+00                         | n                 | 2.6E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Thallium                                  | 7440-28-0   | 6.5E+01                                         | n                 | 1.7E+00                         | m                 | 1.7E+02                              | m                 | —                                                  | —                 | —                                        | —                 | —                                   | 6.5E+01                                         | n                 | 8.7E-01                         | m                 | 8.7E+01                              | m                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Thiofanox                                 | 39196-18-4  | 2.0E+02                                         | n                 | 9.4E-02                         | n                 | 9.4E+00                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+02                                         | n                 | 4.7E-02                         | n                 | 4.7E+00                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Thionazin                                 | 297-97-2    | 4.8E+01                                         | n                 | 3.3E-02                         | n                 | 3.3E+00                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 4.8E+01                                         | n                 | 1.7E-02                         | n                 | 1.7E+00                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Thiophanate-methyl                        | 23564-05-8  | 5.5E+04                                         | n                 | 1.3E+01                         | n >S              | 1.3E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 5.5E+04                                         | n                 | 6.6E+00                         | n >S              | 6.6E+02                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Thiram                                    | 137-26-8    | 3.4E+03                                         | n                 | 1.0E+01                         | n                 | 1.0E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 3.4E+03                                         | n                 | 5.2E+00                         | n                 | 5.2E+02                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Tin                                       | 7440-31-5   | 4.1E+05                                         | n                 | 1.1E+05                         | n >S              | 1.0E+06                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 4.1E+05                                         | n                 | 5.5E+04                         | n >S              | 1.0E+06                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Titanium                                  | 7440-32-6   | 1.0E+06                                         | n                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   | 1.0E+06                                         | n                 | —                               | —                 | —                                    | —                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Toluene                                   | 108-88-3    | 4.2E+04                                         | n                 | 8.2E+00                         | m                 | 8.2E+02                              | m                 | 8.8E+04                                            | n                 | 7.3E+05                                  | n >S              | —                                   | 2.9E+04                                         | n                 | 4.1E+00                         | m                 | 4.1E+02                              | m                 | 4.5E+04                                            | n                 | 4.7E+04                                  | n >S              | —                                   |
| Toluene diisocyanate, 2,4/2,6-            | 26471-62-5  | 2.0E+02                                         | n                 | —                               | —                 | —                                    | —                 | 2.0E+02                                            | n                 | 2.4E+05                                  | n                 | —                                   | 1.0E+02                                         | n                 | —                               | —                 | —                                    | —                 | 1.0E+02                                            | n                 | 1.5E+04                                  | n                 | —                                   |
| Toluenediamine, 2,4-                      | 95-80-7     | 6.0E+00                                         | c                 | 3.4E-02                         | c                 | 3.4E+00                              | c                 | —                                                  | —                 | —                                        | —                 | —                                   | 6.0E+00                                         | c                 | 1.7E-02                         | c                 | 1.7E+00                              | c                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Toluenediamine, 2,6-                      | 823-40-5    | 2.0E+04                                         | n                 | 4.3E+00                         | n                 | 4.3E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+04                                         | n                 | 2.2E+00                         | n                 | 2.2E+02                              | n                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Toluidine, o-                             | 95-53-4     | 1.1E+02                                         | c                 | 1.3E+00                         | c                 | 1.3E+02                              | c                 | 2.3E+02                                            | c                 | 4.5E+04                                  | c                 | —                                   | 7.6E+01                                         | c                 | 6.5E-01                         | c                 | 6.5E+01                              | c                 | 1.2E+02                                            | c                 | 2.9E+03                                  | c                 | —                                   |
| Toluidine, p-                             | 106-49-0    | 2.3E+02                                         | c                 | 2.0E-01                         | c                 | 2.0E+01                              | c                 | —                                                  | —                 | —                                        | —                 | —                                   | 2.3E+02                                         | c                 | 9.9E-02                         | c                 | 9.9E+00                              | c                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Toxaphene                                 | 8001-35-2   | 1.7E+01                                         | c                 | 1.2E+01                         | m                 | 1.2E+03                              | m                 | 1.6E+03                                            | c                 | 1.0E+06                                  | c >S              | —                                   | 1.7E+01                                         | c                 | 5.8E+00                         | m                 | 5.8E+02                              | m                 | 8.3E+02                                            | c                 | 7.5E+05                                  | c >S              | —                                   |
| TPH, TX1005, C6-C12                       | TPH-1005-1  | 3.9E+03                                         | n                 | 1.9E+02                         | n                 | 1.9E+04                              | n >S              | 4.3E+03                                            | n                 | 1.6E+05                                  | n >S              | —                                   | 2.1E+03                                         | n                 | 9.7E+01                         | n                 | 9.7E+03                              | n >S              | 2.2E+03                                            | n                 | 1.1E+04                                  | n >S              | —                                   |
| TPH, TX1005, >C12-C28                     | TPH-1005-2  | 1.2E+04                                         | n                 | 5.9E+02                         | n                 | 5.9E+04                              | n >S              | 2.1E+04                                            | n                 | 1.0E+06                                  | n >S              | —                                   | 7.8E+03                                         | n                 | 3.0E+02                         | n                 | 3.0E+04                              | n >S              | 1.1E+04                                            | n                 | 1.4E+05                                  | n >S              | —                                   |
| TPH, TX1005, >C12-C35                     | TPH-1005-3  | 1.2E+04                                         | n                 | 5.9E+02                         | n                 | 5.9E+04                              | n >S              | 2.1E+04                                            | n                 | 1.0E+06                                  | n >S              | —                                   | 7.8E+03                                         | n                 | 3.0E+02                         | n                 | 3.0E+04                              | n >S              | 1.1E+04                                            | n                 | 1.4E+05                                  | n >S              | —                                   |
| TPH, TX1005, >C28-C35                     | TPH-1005-4  | 1.2E+04                                         | n                 | 5.9E+02                         | n                 | 5.9E+04                              | n >S              | 2.1E+04                                            | n                 | 1.0E+06                                  | n >S              | —                                   | 7.8E+03                                         | n                 | 3.0E+02                         | n                 | 3.0E+04                              | n >S              | 1.1E+04                                            | n                 | 1.4E+05                                  | n >S              | —                                   |
| TP Silvex, 2,4,5-                         | 93-72-1     | 5.5E+03                                         | n                 | 5.3E+00                         | m                 | 5.3E+02                              | m                 | —                                                  | —                 | —                                        | —                 | —                                   | 5.5E+03                                         | n                 | 2.6E+00                         | m                 | 2.6E+02                              | m                 | —                                                  | —                 | —                                        | —                 | —                                   |
| Triademenol                               | 55219-65-3  | 2.0E+04                                         | n                 | 2.5E+01                         | n                 | 2.5E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 2.0E+04                                         | n                 | 1.2E+01                         | n                 | 1.2E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |
| Triallate                                 | 2303-17-5   | 8.9E+03                                         | n                 | 5.6E+01                         | n                 | 5.6E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   | 8.9E+03                                         | n                 | 2.8E+01                         | n                 | 2.8E+03                              | n >S              | —                                                  | —                 | —                                        | —                 | —                                   |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | 0.5 acre source area                            |                   |                                 |                   |                                      |                   |                                                              |                   |                                                    |                   | 30 acre source area                       |                                                 |                   |                                 |                   |                                      |                   |                                                              |                   |                                                    |                   |                                           |   |
|---------------------------------------------------|------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------------------|-------------------|----------------------------------------------------|-------------------|-------------------------------------------|-------------------------------------------------|-------------------|---------------------------------|-------------------|--------------------------------------|-------------------|--------------------------------------------------------------|-------------------|----------------------------------------------------|-------------------|-------------------------------------------|---|
|                                                   |            | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>1st<sup>h</sup>-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>1st<sup>h</sup>-V</sub><br>(mg/kg) | note <sup>3</sup> | GWsoil for<br>Secondary<br>MCL<br>(mg/kg) | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>mg</sub><br>(mg/kg) | note <sup>3</sup> | GWSoil <sub>Class 3</sub><br>(mg/kg) | note <sup>3</sup> | AirSoil <sub>1st<sup>h</sup>-V</sub> <sup>4</sup><br>(mg/kg) | note <sup>3</sup> | AirGW-Soil <sub>1st<sup>h</sup>-V</sub><br>(mg/kg) | note <sup>3</sup> | GWsoil for<br>Secondary<br>MCL<br>(mg/kg) |   |
| Triaminotrirobenzene (TATB)                       | 3058-38-6  | 2.0E+03                                         | n                 | 4.6E-01                         | n                 | 4.6E+01                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 2.0E+03                                         | n                 | 2.3E-01                         | n                 | 2.3E+01                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | — |
| Tributyltin oxide                                 | 56-35-9    | 2.0E+02                                         | n                 | —                               | —                 | —                                    | —                 | —                                                            | —                 | —                                                  | —                 | —                                         | 2.0E+02                                         | n                 | —                               | —                 | —                                    | —                 | —                                                            | —                 | —                                                  | —                 | —                                         | — |
| Trichloro-1,2,2-trifluoroethane, 1,1,2-           | 76-13-1    | 1.1E+05                                         | n                 | 2.4E+05                         | n >S              | 1.0E+06                              | n >S              | 1.1E+05                                                      | n                 | 2.3E+05                                            | n >S              | —                                         | 5.5E+04                                         | n                 | 1.2E+05                         | n >S              | 1.0E+06                              | n >S              | 5.5E+04                                                      | n                 | 1.5E+04                                            | n >S              | —                                         | — |
| Trichlorobenzene, 1,2,3-                          | 87-61-6    | 3.5E+02                                         | n                 | 7.9E+01                         | n                 | 7.9E+03                              | n >S              | 4.2E+02                                                      | n                 | 6.7E+04                                            | n >S              | —                                         | 2.0E+02                                         | n                 | 3.9E+01                         | n                 | 3.9E+03                              | n >S              | 2.2E+02                                                      | n                 | 4.3E+03                                            | n >S              | —                                         | — |
| Trichlorobenzene, 1,2,4-                          | 120-82-1   | 2.0E+02                                         | n                 | 4.8E+00                         | m                 | 4.8E+02                              | m                 | 2.1E+02                                                      | n                 | 1.5E+04                                            | n >S              | —                                         | 1.1E+02                                         | n                 | 2.4E+00                         | m                 | 2.4E+02                              | m                 | 1.1E+02                                                      | n                 | 9.7E+02                                            | n                 | —                                         | — |
| Trichlorobenzene, 1,3,5-                          | 108-70-3   | 1.6E+02                                         | n                 | 2.2E+01                         | n                 | 2.2E+03                              | n >S              | 1.8E+02                                                      | n                 | 1.5E+04                                            | n >S              | —                                         | 8.7E+01                                         | n                 | 1.1E+01                         | n                 | 1.1E+03                              | n >S              | 9.1E+01                                                      | n                 | 9.4E+02                                            | n >S              | —                                         | — |
| Trichloroethane, 1,1,1-                           | 71-55-6    | 1.0E+05                                         | n                 | 1.6E+00                         | m                 | 1.6E+02                              | m                 | 1.1E+05                                                      | n                 | 4.6E+05                                            | n >S              | —                                         | 5.5E+04                                         | n                 | 8.1E-01                         | m                 | 8.1E+01                              | m                 | 5.6E+04                                                      | n                 | 3.0E+04                                            | n >S              | —                                         | — |
| Trichloroethane, 1,1,2-                           | 79-00-5    | 3.5E+01                                         | c                 | 2.0E-02                         | m                 | 2.0E+00                              | m                 | 3.8E+01                                                      | c                 | 5.4E+02                                            | c                 | —                                         | 1.9E+01                                         | c                 | 1.0E-02                         | m                 | 1.0E+00                              | m                 | 1.9E+01                                                      | c                 | 3.5E+01                                            | c                 | —                                         | — |
| Trichloroethylene [TCE]                           | 79-01-6    | 4.0E+01                                         | n                 | 3.4E-02                         | m                 | 3.4E+00                              | m                 | 4.3E+01                                                      | n                 | 2.2E+02                                            | n                 | —                                         | 2.1E+01                                         | n                 | 1.7E-02                         | m                 | 1.7E+00                              | m                 | 2.2E+01                                                      | n                 | 1.4E+01                                            | n                 | —                                         | — |
| Trichlorofluoromethane                            | 75-69-4    | 3.1E+05                                         | n                 | 3.8E+02                         | n                 | 3.8E+04                              | n >S              | —                                                            | —                 | —                                                  | —                 | —                                         | 3.1E+05                                         | n                 | 1.9E+02                         | n                 | 1.9E+04                              | n >S              | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trichloronate                                     | 327-98-0   | 2.0E+03                                         | n                 | 3.7E-02                         | n                 | 3.7E+04                              | n >S              | —                                                            | —                 | —                                                  | —                 | —                                         | 2.0E+03                                         | n                 | 1.8E+02                         | n                 | 1.8E+04                              | n >S              | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trichlorophenol, 2,3,4-                           | 15950-66-0 | 6.8E+04                                         | n                 | 1.8E+02                         | n                 | 1.8E+04                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 6.8E+04                                         | n                 | 8.9E+01                         | n                 | 8.9E+03                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trichlorophenol, 2,3,5-                           | 933-78-8   | 6.8E+04                                         | n                 | 8.3E+01                         | n                 | 8.3E+03                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 6.8E+04                                         | n                 | 4.1E+01                         | n                 | 4.1E+03                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trichlorophenol, 2,3,6-                           | 933-75-5   | 6.8E+04                                         | n                 | 8.6E+01                         | n                 | 8.6E+03                              | n >S              | —                                                            | —                 | —                                                  | —                 | —                                         | 6.8E+04                                         | n                 | 4.3E+01                         | n                 | 4.3E+03                              | n >S              | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trichlorophenol, 2,4,5-                           | 95-95-4    | 6.8E+04                                         | n                 | 1.0E+02                         | n                 | 1.0E+04                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 6.8E+04                                         | n                 | 5.1E+01                         | n                 | 5.1E+03                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trichlorophenol, 2,4,6-                           | 88-06-2    | 6.8E+02                                         | n                 | 5.2E-01                         | n                 | 5.2E+01                              | n                 | 3.3E+03                                                      | c                 | 5.9E+05                                            | c >S              | —                                         | 6.8E+02                                         | n                 | 2.6E-01                         | n                 | 2.6E+01                              | n                 | 1.7E+03                                                      | c                 | 3.8E+04                                            | c >S              | —                                         | — |
| Trichlorophenol, 3,4,5-                           | 609-19-8   | 6.8E+04                                         | n                 | 9.8E+02                         | n                 | 9.8E+04                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 6.8E+04                                         | n                 | 4.9E+02                         | n                 | 4.9E+04                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trichlorophenoxyacetic acid, 2,4,5-               | 93-76-5    | 6.8E+03                                         | n                 | 2.9E+00                         | n                 | 2.9E+02                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 6.8E+03                                         | n                 | 1.5E+00                         | n                 | 1.5E+02                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trichloropropane, 1,1,2-                          | 598-77-6   | 6.4E+00                                         | n                 | 4.3E+00                         | n                 | 4.3E+02                              | n                 | 6.4E+00                                                      | n                 | 4.5E+01                                            | n                 | —                                         | 3.3E+00                                         | n                 | 2.2E+00                         | n                 | 2.2E+02                              | n                 | 3.3E+00                                                      | n                 | 2.9E+00                                            | n                 | —                                         | — |
| Trichloropropane, 1,2,3-                          | 96-18-4    | 9.5E-01                                         | c                 | 1.2E-03                         | c                 | 1.2E-01                              | c                 | 2.0E+01                                                      | n                 | 7.9E+02                                            | n                 | —                                         | 9.5E-01                                         | c                 | 6.0E-04                         | c                 | 6.0E-02                              | c                 | 1.0E+01                                                      | n                 | 5.1E+01                                            | n                 | —                                         | — |
| Triethanolamine                                   | 102-71-6   | 5.2E+03                                         | n                 | 2.8E+01                         | n                 | 2.8E+03                              | n                 | 5.4E+03                                                      | n                 | 1.0E+06                                            | n                 | —                                         | 2.7E+03                                         | n                 | 1.4E+01                         | n                 | 1.4E+03                              | n                 | 2.8E+03                                                      | n                 | 9.6E+05                                            | n                 | —                                         | — |
| Triethylamine                                     | 121-44-8   | 1.5E+02                                         | n                 | —                               | —                 | —                                    | —                 | 1.5E+02                                                      | n                 | 2.2E+03                                            | n                 | —                                         | 7.7E+01                                         | n                 | —                               | —                 | —                                    | —                 | 7.7E+01                                                      | n                 | 1.4E+02                                            | n                 | —                                         | — |
| Triethylene glycol                                | 112-27-6   | 1.0E+06                                         | n                 | 2.8E+02                         | n                 | 2.8E+04                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 1.0E+06                                         | n                 | 1.4E+02                         | n                 | 1.4E+04                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Triethylphosphorothioate, O, O, O-                | 126-68-1   | 5.7E+00                                         | n                 | 1.3E-02                         | n                 | 1.3E+00                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 5.7E+00                                         | n                 | 6.5E-03                         | n                 | 6.5E-01                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trifluralin                                       | 1582-09-8  | 2.5E+03                                         | c                 | 1.5E+02                         | c                 | 1.5E+04                              | c >S              | —                                                            | —                 | —                                                  | —                 | —                                         | 2.5E+03                                         | c                 | 7.3E+01                         | c                 | 7.3E+03                              | c >S              | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trimethylamine                                    | 75-50-3    | 2.1E+02                                         | n                 | —                               | —                 | —                                    | —                 | 2.1E+02                                                      | n                 | 6.1E+03                                            | n                 | —                                         | 1.1E+02                                         | n                 | —                               | —                 | —                                    | —                 | 1.1E+02                                                      | n                 | 3.9E+02                                            | n                 | —                                         | — |
| Trimethylbenzene, 1,2,3-                          | 526-73-8   | 4.4E+03                                         | n                 | 6.4E+01                         | n                 | 6.4E+03                              | n >S              | 5.1E+03                                                      | n                 | 2.0E+05                                            | n >S              | —                                         | 2.4E+03                                         | n                 | 3.2E+01                         | n                 | 3.2E+03                              | n >S              | 2.6E+03                                                      | n                 | 1.3E+04                                            | n >S              | —                                         | — |
| Trimethylbenzene, 1,2,4-                          | 95-63-6    | 4.9E+03                                         | n                 | 9.9E+01                         | n                 | 9.9E+03                              | n >S              | 5.6E+03                                                      | n                 | 2.7E+05                                            | n >S              | —                                         | 2.7E+03                                         | n                 | 4.9E+01                         | n                 | 4.9E+03                              | n >S              | 2.9E+03                                                      | n                 | 1.8E+04                                            | n >S              | —                                         | — |
| Trimethylbenzene, 1,3,5-                          | 108-67-8   | 4.3E+03                                         | n                 | 1.1E+02                         | n                 | 1.1E+04                              | n >S              | 4.9E+03                                                      | n                 | 2.3E+05                                            | n >S              | —                                         | 2.3E+03                                         | n                 | 5.4E+01                         | n                 | 5.4E+03                              | n >S              | 2.5E+03                                                      | n                 | 1.5E+04                                            | n >S              | —                                         | — |
| Trinitrobenzene, 1,3,5-                           | 99-35-4    | 2.0E+04                                         | n                 | 5.4E+00                         | n                 | 5.4E+02                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 2.0E+04                                         | n                 | 2.7E+00                         | n                 | 2.7E+02                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trinitrophenylmethylnitramine (tetryl; nitramine) | 479-45-8   | 1.6E+03                                         | n                 | 1.6E+00                         | n                 | 1.6E+02                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 1.6E+03                                         | n                 | 8.2E-01                         | n                 | 8.2E+01                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Trinitrotoluene, 2,4,6-                           | 118-96-7   | 3.4E+02                                         | n                 | 5.1E-01                         | n                 | 5.1E+01                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 3.4E+02                                         | n                 | 2.6E-01                         | n                 | 2.6E+01                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Tungsten (as sodium tungstate dihydride)          | 7440-33-7  | 8.2E+02                                         | n                 | 2.4E+02                         | n                 | 2.4E+04                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 8.2E+02                                         | n                 | 1.2E+02                         | n                 | 1.2E+04                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Uranium (soluble salts)                           | 7440-61-1  | 2.8E+03                                         | n                 | 1.8E+03                         | m >S              | 1.8E+05                              | m >S              | —                                                            | —                 | —                                                  | —                 | —                                         | 2.6E+03                                         | n                 | 8.9E+02                         | m >S              | 8.9E+04                              | m >S              | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Valeric acid (pentanoic acid)                     | 109-52-4   | 1.8E+02                                         | n                 | 7.0E+01                         | n >S              | 7.0E+03                              | n >S              | 1.8E+02                                                      | n                 | 5.3E+04                                            | n >S              | —                                         | 9.5E+01                                         | n                 | 3.5E+01                         | n >S              | 3.5E+03                              | n >S              | 9.5E+01                                                      | n                 | 3.4E+03                                            | n >S              | —                                         | — |
| Vanadium                                          | 7440-62-2  | 6.2E+02                                         | n                 | 2.6E+03                         | n >S              | 2.6E+05                              | n >S              | —                                                            | —                 | —                                                  | —                 | —                                         | 6.1E+02                                         | n                 | 1.3E+03                         | n >S              | 1.3E+05                              | n >S              | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Vernam                                            | 1929-77-7  | 6.8E+02                                         | n                 | 8.2E+00                         | n                 | 8.2E+02                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 6.8E+02                                         | n                 | 4.1E+00                         | n                 | 4.1E+02                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Vinyl acetate                                     | 108-05-4   | 4.3E+03                                         | n                 | 1.6E+02                         | n                 | 1.6E+04                              | n                 | 4.3E+03                                                      | n                 | 4.3E+04                                            | n                 | —                                         | 2.2E+03                                         | n                 | 8.0E+01                         | n                 | 8.0E+03                              | n                 | 2.2E+03                                                      | n                 | 2.8E+03                                            | n                 | —                                         | — |
| Vinyl chloride                                    | 75-01-4    | 1.5E+01                                         | c                 | 2.2E-02                         | m                 | 2.2E+00                              | m                 | 7.2E+01                                                      | c                 | 7.1E+01                                            | c                 | —                                         | 1.3E+01                                         | c                 | 1.1E-02                         | m                 | 1.1E+00                              | m                 | 3.7E+01                                                      | c                 | 4.6E+00                                            | c                 | —                                         | — |
| Vinylcyclohexane                                  | 695-12-5   | 5.1E+05                                         | n                 | 4.2E+03                         | n >S              | 4.2E+05                              | n >S              | —                                                            | —                 | —                                                  | —                 | —                                         | 5.1E+05                                         | n                 | 2.1E+03                         | n >S              | 2.1E+05                              | n >S              | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Warfarin                                          | 81-81-2    | 2.0E+02                                         | n                 | 8.4E-01                         | n                 | 8.4E+01                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         | 2.0E+02                                         | n                 | 4.2E-01                         | n                 | 4.2E+01                              | n                 | —                                                            | —                 | —                                                  | —                 | —                                         |   |
| Xylene, m-                                        | 108-38-3   | 1.3E+04                                         | n                 | 1.1E+02                         | m                 | 1.1E+04                              | m >S              | 1.3E+04                                                      | n                 | 1.6E+05                                            | n >S              | —                                         | 6.7E+03                                         | n                 | 5.3E+01                         | m                 | 5.3E+03                              | m >S              | 6.7E+03                                                      | n                 | 1.0E+04                                            | n >S              | —                                         | — |
| Xylene, o-                                        | 95-47-6    | 9.1E+04                                         | n                 | 7.1E+01                         | m                 | 7.1E+03                              | m >S              | 9.5E+04                                                      | n                 | 1.0E+06                                            | n >S              | —                                         | 4.8E+04                                         | n                 | 3.5E+01                         | m                 | 3.5E+03                              | m >S              | 4.9E+04                                                      | n                 | 4.9E+05                                            | n >S              | —                                         | — |
| Xylene, p-                                        | 106-42-3   | 1.3E+04                                         | n                 | 1.5E+02                         | m                 | 1.5E+04                              | m >S              | 1.3E+04                                                      | n                 | 2.0E+05                                            | n >S              | —                                         | 6.7E+03                                         | n                 | 7.5E+01                         | m                 | 7.5E+03                              | m >S              | 6.7E+03                                                      | n                 | 1.3E+04                                            | n >S              | —                                         | — |
| Xylenes                                           | 1330-20-7  | 1.2E+04                                         | n                 | 1.2E+02                         | m                 | 1.2E+04                              | m >S              | 1.3E+04                                                      | n                 | 1.8E+05                                            | n >S              | —                                         | 6.5E+03                                         | n                 | 6.1E+01                         | m                 | 6.1E+03                              | m >S              | 6.7E+03                                                      | n                 | 1.1E+04                                            | n >S              | —                                         | — |
| Zinc                                              | 7440-66-6  | 2.5E+05                                         | n                 | 7.0E+03                         | n >S              | 7.0E+05                              | n >S              | —                                                            | —                 | —                                                  | —                 | 1.6E+03                                   | 2.5E+05                                         | n                 | 3.5E+03                         | n >S              | 3.5E+05                              | n >S              | —                                                            | —                 | —                                                  | —                 | 8.0E+02                                   |   |
| 6 C aliphatics (TPH) (>53% n-hexane content)      | NA         | 1.2E+04                                         | n                 | 5.1E+02                         | n                 | 5.1E+04                              | n >S              | 1.4E+04                                                      | n                 | 1.7E+04                                            | n >S              | —                                         | 6.6E+03                                         | n                 | 2.6E+02                         | n                 | 2.6E+04                              | n >S              | 7.4E+03                                                      | n                 | 1.1E+03                                            | n                 | —                                         | — |
| 6 C aliphatics (TPH) (<53% n-hexane content)      | NA         | 5.3E+04                                         | n                 | 5.1E+02                         | n                 | 5.1E+04                              | n >S              | 4.0E+05                                                      | n                 | 4.8E+05                                            | n >S              | —                                         | 4.7E+04                                         | n                 | 2.6E+02                         | n                 | 2.6E+04                              | n >S              | 2.0E+05                                                      | n                 | 3.1E+04                                            | n >S              | —                                         | — |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)   | NA         | 1.2E+04                                         | n                 | 1.3E+03                         | n                 | 1.3E+05                              | n >S              | 1.4E+04                                                      | n                 | 2.8E+04                                            | n >S              | —                                         | 6.6E+03                                         | n                 | 6.3E+02                         | n                 | 6.3E+04                              | n >S              | 7.4E+03                                                      | n                 | 1.8E+03                                            | n >S              | —                                         | — |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)   | NA         | 5.3E+04                                         | n                 | 1.3E+03                         | n                 | 1.3E+05                              | n >S              |                                                              |                   |                                                    |                   |                                           |                                                 |                   |                                 |                   |                                      |                   |                                                              |                   |                                                    |                   |                                           |   |

**Table 2**  
**Tier 1 Commercial/Industrial Soil PCLs<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                   | CAS | 0.5 acre source area                            |   |                                  |      |                                      |      |                                                  |   |                                        |      | 30 acre source area                 |         |                                                 |         |                                  |         |                                      |         |                                                  |         |                                        |   |                                     |
|-----------------------------------------------------------------------|-----|-------------------------------------------------|---|----------------------------------|------|--------------------------------------|------|--------------------------------------------------|---|----------------------------------------|------|-------------------------------------|---------|-------------------------------------------------|---------|----------------------------------|---------|--------------------------------------|---------|--------------------------------------------------|---------|----------------------------------------|---|-------------------------------------|
|                                                                       |     | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) |   | GWSoil <sub>ing</sub><br>(mg/kg) |      | GWSoil <sub>Class 3</sub><br>(mg/kg) |      | AirSoil <sub>inh-V</sub> <sup>4</sup><br>(mg/kg) |   | AirGW-Soil <sub>inh-V</sub><br>(mg/kg) |      | GWSoil for Secondary MCL<br>(mg/kg) |         | TotSoil <sub>Comb</sub> <sup>2</sup><br>(mg/kg) |         | GWSoil <sub>ing</sub><br>(mg/kg) |         | GWSoil <sub>Class 3</sub><br>(mg/kg) |         | AirSoil <sub>inh-V</sub> <sup>4</sup><br>(mg/kg) |         | AirGW-Soil <sub>inh-V</sub><br>(mg/kg) |   | GWSoil for Secondary MCL<br>(mg/kg) |
| >8-10 C aliphatics (TPH)                                              | NA  | 9.7E+03                                         | n | 1.1E+04                          | n >S | 1.0E+06                              | n >S | 1.1E+04                                          | n | 6.8E+04                                | n >S | —                                   | 5.2E+03 | n                                               | 5.4E+03 | n >S                             | 5.4E+05 | n >S                                 | 5.5E+03 | n                                                | 4.4E+03 | n >S                                   | — | —                                   |
| >10-12 C aliphatics (TPH)                                             | NA  | 9.3E+03                                         | n | 7.6E+04                          | n >S | 1.0E+06                              | n >S | 1.1E+04                                          | n | 3.2E+05                                | n >S | —                                   | 5.1E+03 | n                                               | 3.8E+04 | n >S                             | 1.0E+06 | n >S                                 | 5.5E+03 | n                                                | 2.1E+04 | n >S                                   | — | —                                   |
| >12-16 C aliphatics (TPH)                                             | NA  | 1.4E+04                                         | n | 1.0E+06                          | n >S | 1.0E+06                              | n >S | 1.7E+04                                          | n | 1.0E+06                                | n >S | —                                   | 7.7E+03 | n                                               | 7.4E+05 | n >S                             | 1.0E+06 | n >S                                 | 8.7E+03 | n                                                | 9.3E+04 | n >S                                   | — | —                                   |
| >16-21 C aliphatics (TPH)                                             | NA  | 1.0E+06                                         | n | 1.0E+06                          | n >S | 1.0E+06                              | n >S | —                                                | — | —                                      | —    | —                                   | 1.0E+06 | n                                               | 1.0E+06 | n >S                             | 1.0E+06 | n >S                                 | —       | —                                                | —       | —                                      | — | —                                   |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only) | NA  | 1.0E+06                                         | n | 1.0E+06                          | n >S | 1.0E+06                              | n >S | —                                                | — | —                                      | —    | —                                   | 1.0E+06 | n                                               | 1.0E+06 | n >S                             | 1.0E+06 | n >S                                 | —       | —                                                | —       | —                                      | — | —                                   |
| >21-35 C aliphatics (TPH)                                             | NA  | 1.0E+06                                         | n | 1.0E+06                          | n >S | 1.0E+06                              | n >S | —                                                | — | —                                      | —    | —                                   | 1.0E+06 | n                                               | 1.0E+06 | n >S                             | 1.0E+06 | n >S                                 | —       | —                                                | —       | —                                      | — | —                                   |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only) | NA  | 1.0E+06                                         | n | 1.0E+06                          | n >S | 1.0E+06                              | n >S | —                                                | — | —                                      | —    | —                                   | 1.0E+06 | n                                               | 1.0E+06 | n >S                             | 1.0E+06 | n >S                                 | —       | —                                                | —       | —                                      | — | —                                   |
| >7-8 C aromatics (TPH)                                                | NA  | 2.9E+04                                         | n | 6.0E+01                          | n    | 6.0E+03                              | n >S | 4.1E+04                                          | n | 3.4E+05                                | n >S | —                                   | 1.7E+04 | n                                               | 3.0E+01 | n                                | 3.0E+03 | n >S                                 | 2.1E+04 | n                                                | 2.2E+04 | n >S                                   | — | —                                   |
| >8-10 C aromatics (TPH)                                               | NA  | 3.9E+03                                         | n | 1.9E+02                          | n    | 1.9E+04                              | n >S | 4.3E+03                                          | n | 1.6E+05                                | n >S | —                                   | 2.1E+03 | n                                               | 9.7E+01 | n                                | 9.7E+03 | n >S                                 | 2.2E+03 | n                                                | 1.1E+04 | n >S                                   | — | —                                   |
| >10-12 C aromatics (TPH)                                              | NA  | 6.9E+03                                         | n | 3.0E+02                          | n    | 3.0E+04                              | n >S | 9.2E+03                                          | n | 6.1E+05                                | n >S | —                                   | 4.0E+03 | n                                               | 1.5E+02 | n                                | 1.5E+04 | n >S                                 | 4.8E+03 | n                                                | 4.0E+04 | n >S                                   | — | —                                   |
| >12-16 C aromatics (TPH)                                              | NA  | 1.2E+04                                         | n | 5.9E+02                          | n    | 5.9E+04                              | n >S | 2.1E+04                                          | n | 1.0E+06                                | n >S | —                                   | 7.8E+03 | n                                               | 3.0E+02 | n                                | 3.0E+04 | n >S                                 | 1.1E+04 | n                                                | 1.4E+05 | n >S                                   | — | —                                   |
| >16-21 C aromatics (TPH)                                              | NA  | 2.0E+04                                         | n | 1.4E+03                          | n >S | 1.4E+05                              | n >S | —                                                | — | —                                      | —    | —                                   | 2.0E+04 | n                                               | 7.0E+02 | n >S                             | 7.0E+04 | n >S                                 | —       | —                                                | —       | —                                      | — | —                                   |
| >21-35 C aromatics (TPH)                                              | NA  | 2.0E+04                                         | n | 1.1E+04                          | n >S | 1.0E+06                              | n >S | —                                                | — | —                                      | —    | —                                   | 2.0E+04 | n                                               | 5.5E+03 | n >S                             | 5.5E+05 | n >S                                 | —       | —                                                | —       | —                                      | — | —                                   |
| Transformer Mineral Oil                                               | NA  | 8.0E+04                                         | n | 7.5E+05                          | n    | 1.0E+06                              | n    | 1.2E+05                                          | n | 1.0E+06                                | n    | —                                   | 5.2E+04 | n                                               | 3.7E+05 | n                                | 1.0E+06 | n                                    | 6.1E+04 | n                                                | 8.6E+05 | n                                      | — | —                                   |

**Footnotes**

1 In accordance with §350.72(b), when establishing Tier 1 PCLs for individual COCs for each of the individual and combined human health exposure pathways, the person must evaluate whether the PCLs need to be adjusted to lower concentrations to meet the cumulative carcinogenic risk level and hazard index criteria specified in §350.72(c). For COCs which exhibit both carcinogenic and noncarcinogenic characteristics, they shall be evaluated as both a carcinogen and noncarcinogen when determining whether the PCL established for an individual COC for each of the individual and combined human health exposure pathways needs to be adjusted to a lower concentration to meet the cumulative risk and hazard criteria. The person shall then use the lower of the carcinogenic or noncarcinogenic PCL as the Tier 1 human health PCL. In other words, the Tier 1 PCLs provided in this table for an individual COC should not be used as the final Tier 1 human health PCL for any of the individual or combined exposure pathways in cases where there are more than 10 carcinogenic and/or more than 10 noncarcinogenic COCs within a source medium unless it can be demonstrated that further downward adjustment is not necessary to meet the cumulative risk and hazard criteria.

2 Combined includes inhalation; ingestion; dermal pathways

3 c = carcinogenic; n = noncarcinogenic; m = primary MCL-based; e = EPA Action Level-based; > S = solubility limit exceeded during calculation

4 For subsurface soils only

5 Site-specific PCLs for mercury may vary based on the pH-dependent Kd value (see Figure: 30 TAC §350.73(f)(1)(C)). Persons should use the Tier 1 pH 4.9-based PCLs unless a site-specific soil pH > 6.8 is demonstrated with site-specific soil samples.

6 Persons must use the value provided in the "GWSoil for Secondary MCL" column of this table as the "GWSoil PCL for MTBE if the conditions described in §350.74(f)(3) exist.

7 Please see the note on nitrate/nitrite in the "List of Updates" spreadsheet for March 31, 2017.

8 This chemical is one of four chemicals that make up total trihalomethanes (TTHMs). USEPA has established an MCL for TTHMs of 0.08 mg/L. Each individual chemical that contributes to TTHMs must meet the 0.08 mg/L based GWSoil<sub>ing</sub> PCL, and the person must ensure that the total soil concentrations for all four will not impact groundwater above the GWGWing based MCL.

9 Nitrate, nitrite, and ammonia are inorganic anions that are mobile in most environmental situations, quickly partitioning from soil to groundwater. Due to these partitioning characteristics it is difficult to calculate a reliable soil-water partition coefficient (Kd) and Henry's law constant (H') for these compounds. The Kd and H' are parameters that are required to calculate the GWSoil<sub>ing</sub> PCL in accordance with 30 TAC 350.75(b)(1) using the Tier 1 GWSoil<sub>ing</sub> PCL equation.

\* These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <http://www.tceq.state.tx.us/remediation/trrp/trrp.html>.

NA=Not applicable

All values capped at 1.0E+06

**Footnotes**

- 1** In accordance with §350.72(b), when establishing Tier 1 PCLs for individual COCs for each of the individual and combined human health exposure pathways, the person must evaluate whether the PCLs need to be adjusted to lower concentrations to meet the cumulative carcinogenic risk level and hazard index criteria specified in §350.72(c). For COCs which exhibit both carcinogenic and noncarcinogenic characteristics, they shall be evaluated as both a carcinogen and noncarcinogen when determining whether the PCL established for an individual COC for each of the individual and combined human health exposure pathways needs to be adjusted to a lower concentration to meet the cumulative risk and hazard criteria. The person shall then use the lower of the carcinogenic or noncarcinogenic PCL as the Tier 1 human health PCL. In other words, the Tier 1 PCLs provided in this table for an individual COC should not be used as the final Tier 1 human health PCL for any of the individual or combined exposure pathways in cases where there are more than 10 carcinogenic and/or more than 10 noncarcinogenic COCs within a source medium unless it can be demonstrated that further downward adjustment is not necessary to meet the cumulative risk and hazard criteria.
- 2** Combined includes inhalation; ingestion; dermal pathways
- 3** c = carcinogenic; n = noncarcinogenic; m = primary MCL-based; e = EPA Action Level-based; > S = solubility limit exceeded during calculation
- 4** For subsurface soils only
- 5** Site-specific PCLs for mercury may vary based on the pH-dependent Kd value (see Figure:30 TAC §350.73(f)(1)(C)). Persons should use the Tier 1 pH 4.9-based PCLs unless a site-specific soil pH > 6.8 is demonstrated with site-specific soil samples.
- 6** Persons must use the value provided in the "GWSoil for Secondary MCL" column of this table as the GWSoil PCL for MTBE if the conditions described in §350.74(f)(3) exist.
- 7** Please see the note on nitrate/nitrite in the "List of Updates" spreadsheet for March 31, 2017.
- 8** This chemical is one of four chemicals that make up total trihalomethanes (TTHMs). USEPA has established an MCL for TTHMs of 0.08 mg/L. Each individual chemical that contributes to TTHMs must meet the 0.08 mg/L based GWSoil<sub>ing</sub> PCL, and the person must ensure that the total soil concentrations for all four will not impact groundwater above the GWSoil<sub>ing</sub> based MCL.
- 9** Nitrate, nitrite, and ammonia are inorganic anions that are mobile in most environmental situations, quickly partitioning from soil to groundwater. Due to these partitioning characteristics it is difficult to calculate a reliable soil-water partition coefficient (Kd) and Henry's law constant (H') for these compounds. The Kd and H' are parameters that are required to calculate the GWSoil<sub>ing</sub> PCL in accordance with 30 TAC 350.75(b)(1) using the Tier 1 GWSoil<sub>ing</sub> PCL equation.
- \*** These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <http://www.tceq.state.tx.us/remediation/trrp/trrp.html>.
- NA=Not applicable

All values capped at 1.0E+06

This table shows the commercial/industrial protective concentration levels for 0.5 and 30 acre source areas

end of worksheet

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                           | CAS        | Residential                           |                   |                                          |                   |                                                     |                   |                                                    |                   | Commercial/Industrial                 |                   |                                          |                   |                                                     |                   |                                                    |                   | Secondary MCL <sup>5</sup> (mg/L) |
|-----------------------------------------------|------------|---------------------------------------|-------------------|------------------------------------------|-------------------|-----------------------------------------------------|-------------------|----------------------------------------------------|-------------------|---------------------------------------|-------------------|------------------------------------------|-------------------|-----------------------------------------------------|-------------------|----------------------------------------------------|-------------------|-----------------------------------|
|                                               |            | GW <sub>Ing</sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> | GW <sub>Ing</sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> |                                   |
| Acenaphthene                                  | 83-32-9    | 1.5E+00                               | n                 | 1.5E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 4.4E+00                               | n >S              | 4.4E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Acenaphthylene                                | 208-96-8   | 1.5E+00                               | n                 | 1.5E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 4.4E+00                               | n >S              | 4.4E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Acetaldehyde                                  | 75-07-0    | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | 2.4E+03                                             | —                 | 3.1E+02                                            | n                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | 3.3E+03                                             | —                 | 4.3E+02                                            | n                 | —                                 |
| Acetate, 2-ethoxyethanol                      | 111-15-9   | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | 4.5E+05                                             | n >S              | 5.8E+04                                            | n                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | 6.3E+05                                             | n >S              | 8.1E+04                                            | n                 | —                                 |
| Acetate, isoamyl                              | 123-92-2   | 1.8E+00                               | n                 | 1.8E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 5.3E+00                               | n                 | 5.3E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Acetate, isobutyl                             | 110-19-0   | 1.2E+00                               | n                 | 1.2E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 3.5E+00                               | n                 | 3.5E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Acetate, sec-butyl                            | 105-46-4   | 1.2E+00                               | n                 | 1.2E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 3.5E+00                               | n                 | 3.5E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Acetic acid*                                  | 64-19-7    | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Acetone (2-propanone)                         | 67-64-1    | 2.2E+01                               | n                 | 2.2E+03                                  | n                 | 1.0E+06                                             | n >S              | 1.0E+06                                            | n >S              | 6.6E+01                               | n                 | 6.6E+03                                  | n                 | 1.0E+06                                             | n >S              | 1.0E+06                                            | n >S              | —                                 |
| Acetone cyanohydrin                           | 75-86-5    | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | 3.4E+05                                             | —                 | 4.4E+04                                            | n                 | 2.2E+01                               | n                 | 2.2E+03                                  | n                 | 4.8E+05                                             | n                 | 6.2E+04                                            | n                 | —                                 |
| Acetonitrile                                  | 75-05-8    | 7.8E-01                               | n                 | 7.8E+01                                  | n                 | 3.2E+04                                             | n                 | 4.2E+03                                            | n                 | 2.3E+00                               | n                 | 2.3E+02                                  | n                 | 4.5E+04                                             | n                 | 5.8E+03                                            | n                 | —                                 |
| Acetophenone                                  | 98-86-2    | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Acetylaminofluorene, 2-                       | 53-96-3    | 2.4E-04                               | c                 | 2.4E-02                                  | c                 | 6.3E+02                                             | c >S              | 1.0E+02                                            | c >S              | 5.4E-04                               | c                 | 5.4E-02                                  | c                 | 1.1E+03                                             | c >S              | 1.8E+02                                            | c >S              | —                                 |
| Acifluorfen, sodium                           | 62476-59-9 | 3.2E-01                               | n                 | 3.2E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | 9.5E-01                               | n                 | 9.5E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Acridine                                      | 260-94-6   | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Acrolein                                      | 107-02-8   | 1.2E-02                               | n                 | 1.2E+00                                  | n                 | 9.5E+03                                             | n                 | 1.2E+03                                            | n                 | 3.7E-02                               | n                 | 3.7E+00                                  | n                 | 1.3E+04                                             | n                 | 1.7E+03                                            | n                 | —                                 |
| Acrylamide                                    | 79-06-1    | 1.8E-03                               | c                 | 1.8E-01                                  | c                 | 3.8E+03                                             | c                 | 5.0E+02                                            | c                 | 4.1E-03                               | c                 | 4.1E-01                                  | c                 | 6.3E+03                                             | c                 | 8.4E+02                                            | c                 | —                                 |
| Acrylic acid                                  | 79-10-7    | 1.2E+01                               | n                 | 1.2E+03                                  | n                 | 1.5E+04                                             | n                 | 2.0E+03                                            | n                 | 3.7E+01                               | n                 | 3.7E+03                                  | n                 | 2.1E+04                                             | n                 | 2.7E+03                                            | n                 | —                                 |
| Acrylonitrile                                 | 107-13-1   | 1.7E-03                               | c                 | 1.7E-01                                  | c                 | 5.8E+01                                             | c                 | 7.5E+00                                            | c                 | 3.8E-03                               | c                 | 3.8E-01                                  | c                 | 9.7E+01                                             | c                 | 1.3E+01                                            | c                 | —                                 |
| Adipic acid (hexanedioic acid)                | 124-04-9   | 4.9E+01                               | n                 | 4.9E+03                                  | n                 | —                                                   | —                 | —                                                  | —                 | 1.5E+02                               | n                 | 1.5E+04                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Alachlor                                      | 15972-60-8 | 2.0E-03                               | m                 | 2.0E-01                                  | m                 | —                                                   | —                 | —                                                  | —                 | 2.0E-03                               | m                 | 2.0E-01                                  | m                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Aldicarb                                      | 116-06-3   | 7.0E-03                               | m                 | 7.0E-01                                  | m                 | —                                                   | —                 | —                                                  | —                 | 7.0E-03                               | m                 | 7.0E-01                                  | m                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Aldicarb sulfone                              | 1646-88-4  | 7.0E-03                               | m                 | 7.0E-01                                  | m                 | —                                                   | —                 | —                                                  | —                 | 7.0E-03                               | m                 | 7.0E-01                                  | m                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Aldrin                                        | 309-00-2   | 5.4E-05                               | c                 | 5.4E-03                                  | c                 | 4.4E+00                                             | c >S              | 5.7E-01                                            | c >S              | 1.2E-04                               | c                 | 1.2E-02                                  | c                 | 7.4E+00                                             | c >S              | 9.6E-01                                            | c >S              | —                                 |
| Allyl alcohol                                 | 107-18-6   | 1.2E-01                               | n                 | 1.2E+01                                  | n                 | 3.0E+02                                             | n                 | 3.8E+01                                            | n                 | 3.7E-01                               | n                 | 3.7E+01                                  | n                 | 4.1E+02                                             | n                 | 5.4E+01                                            | n                 | —                                 |
| Allyl chloride                                | 107-05-1   | 2.4E-01                               | n                 | 2.4E+01                                  | n                 | 9.1E+00                                             | n                 | 1.2E+00                                            | n                 | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | 1.3E+01                                             | n                 | 1.7E+00                                            | n                 | —                                 |
| Aluminum                                      | 7429-90-5  | 2.4E+01                               | n >S              | 2.4E+03                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 7.3E+01                               | n >S              | 7.3E+03                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 2.0E-01                           |
| Ametryn                                       | 834-12-8   | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | 6.6E-01                               | n                 | 6.6E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Amino-2,6-dinitrotoluene, 4-                  | 19406-51-0 | 1.2E-02                               | n                 | 1.2E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | 3.7E-02                               | n                 | 3.7E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Amino-4,6-dinitrotoluene, 2-                  | 35572-78-2 | 1.2E-02                               | n                 | 1.2E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | 3.7E-02                               | n                 | 3.7E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine)      | 92-67-1    | 1.5E-04                               | c                 | 1.5E-02                                  | c                 | —                                                   | —                 | —                                                  | —                 | 3.4E-04                               | c                 | 3.4E-02                                  | c                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Aminopyridine, 4-                             | 504-24-5   | 4.9E-04                               | n                 | 4.9E-02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 1.5E-03                               | n                 | 1.5E-01                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Ammonia <sup>5</sup>                          | 7664-41-7  | —                                     | —                 | —                                        | —                 | 8.7E+03                                             | n                 | 1.1E+03                                            | n                 | —                                     | —                 | —                                        | —                 | 1.2E+04                                             | n                 | 1.6E+03                                            | n                 | 1.5E+00                           |
| Ammonium polyphosphate*                       | 6833-79-9  | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Ammonium salts*                               | AMMONIUM   | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Aniline                                       | 62-53-3    | 1.6E-01                               | c                 | 1.6E+01                                  | c                 | 1.1E+04                                             | n                 | 1.4E+03                                            | n                 | 3.6E-01                               | c                 | 3.6E+01                                  | c                 | 1.6E+04                                             | n                 | 2.0E+03                                            | n                 | —                                 |
| Anthracene                                    | 120-12-7   | 7.3E+00                               | n >S              | 7.3E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 2.2E+01                               | n >S              | 2.2E+03                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Anthraquinone, 9,10-                          | 84-65-1    | 2.3E-02                               | c                 | 2.3E+00                                  | c >S              | —                                                   | —                 | —                                                  | —                 | 5.2E-02                               | c                 | 5.2E+00                                  | c >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Antimony                                      | 7440-36-0  | 6.0E-03                               | m >S              | 6.0E-01                                  | m >S              | —                                                   | —                 | —                                                  | —                 | 6.0E-03                               | m >S              | 6.0E-01                                  | m >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Aramite                                       | 140-57-8   | 3.7E-02                               | c                 | 3.7E+00                                  | c                 | —                                                   | —                 | —                                                  | —                 | 8.2E-02                               | c                 | 8.2E+00                                  | c                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Arsenic                                       | 7440-38-2  | 1.0E-02                               | m >S              | 1.0E+00                                  | m >S              | —                                                   | —                 | —                                                  | —                 | 1.0E-02                               | m >S              | 1.0E+00                                  | m >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Arsine                                        | 7784-42-1  | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Atrazine                                      | 1912-24-9  | 3.0E-03                               | m                 | 3.0E-01                                  | m                 | —                                                   | —                 | —                                                  | —                 | 3.0E-03                               | m                 | 3.0E-01                                  | m                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Azinphos-methyl (quthion)                     | 86-50-0    | 3.7E-02                               | n                 | 3.7E+00                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 1.1E-01                               | n >S              | 1.1E+01                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Azobenzene                                    | 103-33-3   | 8.3E-03                               | c                 | 8.3E-01                                  | c                 | 6.8E+02                                             | c >S              | 8.8E+01                                            | c >S              | 1.9E-02                               | c                 | 1.9E+00                                  | c >S              | 1.1E+03                                             | c >S              | 1.5E+02                                            | c >S              | —                                 |
| Barium                                        | 7440-39-3  | 2.0E+00                               | m >S              | 2.0E+02                                  | m >S              | —                                                   | —                 | —                                                  | —                 | 2.0E+00                               | m >S              | 2.0E+02                                  | m >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Bayleton                                      | 43121-43-3 | 7.3E-01                               | n                 | 7.3E+01                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 2.2E+00                               | n                 | 2.2E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benefin (benfluralin)                         | 1861-40-1  | 7.3E+00                               | n >S              | 7.3E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 2.2E+01                               | n >S              | 2.2E+03                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benomyl                                       | 17804-35-2 | 1.2E+00                               | n                 | 1.2E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 3.7E+00                               | n >S              | 3.7E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzo-a-anthracene                            | 56-55-3    | 9.1E-03                               | c                 | 9.1E-01                                  | c >S              | 3.0E+03                                             | c >S              | 3.9E+02                                            | c >S              | 2.0E-02                               | c >S              | 2.0E+00                                  | c >S              | 5.0E+03                                             | c >S              | 6.5E+02                                            | c >S              | —                                 |
| Benzaldehyde                                  | 100-52-7   | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzene                                       | 71-43-2    | 5.0E-03                               | m                 | 5.0E-01                                  | m                 | 1.8E+02                                             | c                 | 2.3E+01                                            | c                 | 5.0E-03                               | m                 | 5.0E-01                                  | m                 | 3.0E+02                                             | c                 | 3.9E+01                                            | c                 | —                                 |
| Benzenedicarbonitrile, 1,3-                   | 626-17-5   | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | 4.4E-01                               | n                 | 4.4E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | 9.8E-01                               | n >S              | 9.8E+01                                  | n >S              | 1.5E+05                                             | n >S              | 1.9E+04                                            | n >S              | 2.9E+00                               | n >S              | 2.9E+02                                  | n >S              | 2.0E+05                                             | n >S              | 2.6E+04                                            | n >S              | —                                 |
| Benzenethiol                                  | 108-98-5   | 2.4E-02                               | n                 | 2.4E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzydine                                     | 92-87-5    | 4.0E-06                               | c                 | 4.0E-04                                  | c                 | 5.0E+00                                             | c                 | 8.4E-01                                            | c                 | 8.9E-06                               | c                 | 8.9E-04                                  | c                 | 8.4E+00                                             | c                 | 1.4E+00                                            | c                 | —                                 |
| Benzo-a-pyrene                                | 50-32-8    | 2.0E-04                               | m                 | 2.0E-02                                  | m >S              | 2.9E+01                                             | n >S              | 3.8E+00                                            | n >S              | 2.0E-04                               | m                 | 2.0E-02                                  | m >S              | 4.1E+01                                             | n >S              | 5.3E+00                                            | n >S              | —                                 |
| Benzo-b-fluoranthene                          | 205-99-2   | 9.1E-03                               | c >S              | 9.1E-01                                  | c >S              | 2.4E+03                                             | c >S              | 3.1E+02                                            | c >S              | 2.0E-02                               | c >S              | 2.0E+00                                  | c >S              | 4.0E+03                                             | c >S              | 5.2E+02                                            | c >S              | —                                 |
| Benzo-e-pyrene                                | 192-97-2   | 7.3E-01                               | n >S              | 7.3E+01                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 2.2E+00                               | n >S              | 2.2E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzo-g,h,i-perylene                          | 191-24-2   | 7.3E-01                               | n >S              | 7.3E+01                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 2.2E+00                               | n >S              | 2.2E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzoic acid                                  | 65-85-0    | 9.8E+01                               | n                 | 9.8E+03                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 2.9E+02                               | n                 | 2.9E+04                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzo-i-fluoranthene                          | 205-82-3   | 9.1E-03                               | c >S              | 9.1E-01                                  | c >S              | 1.5E+03                                             | c >S              | 2.0E+02                                            | c >S              | 2.0E-02                               | c >S              | 2.0E+00                                  | c >S              | 2.6E+03                                             | c >S              | 3.3E+02                                            | c >S              | —                                 |
| Benzo-k-fluoranthene                          | 207-08-9   | 9.1E-02                               | c >S              | 9.1E+00                                  | c >S              | 1.4E+05                                             | c >S              | 1.8E+04                                            | c >S              | 2.0E-01                               | c >S              | 2.0E+01                                  | c >S              | 2.4E+05                                             | c >S              | 3.1E+04                                            | c >S              | —                                 |
| Benzoophenone                                 | 119-61-9   | 1.6E-01                               | n                 | 1.6E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | 4.9E-01                               | n                 | 4.9E+01                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzotrithloride                              | 98-07-7    | 7.0E-05                               | c                 | 7.0E-03                                  | c                 | —                                                   | —                 | —                                                  | —                 | 1.6E-04                               | c                 | 1.6E-02                                  | c                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzoyl peroxide                              | 94-36-0    | 1.2E+00                               | n                 | 1.2E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | 3.7E+00                               | n                 | 3.7E+02                                  | n >S              | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzyl alcohol                                | 100-51-6   | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Benzyl chloride                               | 100-44-7   | 5.4E-03                               | c                 | 5.4E-01                                  | c                 | 1.0E+02                                             | n                 | 1.3E+01                                            | n                 | 1.2E-02                               | c                 | 1.2E+00                                  | c                 | 1.4E+02                                             | n                 | 1.8E+01                                            | n                 | —                                 |
| Benzyl dichloride                             | 98-87-3    | 5.4E-03                               | c                 | 5.4E-01                                  | c                 | 2.0E+02                                             | n                 | 2.6E+01                                            | n                 | 1.2E-02                               | c                 | 1.2E+00                                  | c                 | 2.8E+02                                             | n >S              | 3.6E+01                                            | n                 | —                                 |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                                        | CAS        | Residential                           |                   |                                          |                   |                                                                  |                   |                                                                 |                   | Commercial/Industrial                 |                   |                                          |                   |                                                                  |                   |                                                                 |                   | Secondary MCL <sup>5</sup> (mg/L) |
|------------------------------------------------------------|------------|---------------------------------------|-------------------|------------------------------------------|-------------------|------------------------------------------------------------------|-------------------|-----------------------------------------------------------------|-------------------|---------------------------------------|-------------------|------------------------------------------|-------------------|------------------------------------------------------------------|-------------------|-----------------------------------------------------------------|-------------------|-----------------------------------|
|                                                            |            | GW <sup>2</sup> <sub>Ing</sub> (mg/L) | note <sup>4</sup> | GW <sup>3</sup> <sub>Class3</sub> (mg/L) | note <sup>4</sup> | Air <sup>1</sup> GW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air <sup>1</sup> GW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> | GW <sup>2</sup> <sub>Ing</sub> (mg/L) | note <sup>4</sup> | GW <sup>3</sup> <sub>Class3</sub> (mg/L) | note <sup>4</sup> | Air <sup>1</sup> GW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air <sup>1</sup> GW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> |                                   |
| Beryllium                                                  | 7440-41-7  | 4.0E-03                               | m >S              | 4.0E-01                                  | m >S              | —                                                                | —                 | —                                                               | —                 | 4.0E-03                               | m >S              | 4.0E-01                                  | m >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Biphenyl, 1,1-                                             | 92-52-4    | 1.2E+01                               | n >S              | 1.2E+03                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 3.7E+01                               | n >S              | 3.7E+03                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Biphenyl, 1,1'-, 2-phenoxy-                                | 6738-04-1  | 1.2E+00                               | n >S              | 1.2E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 3.7E+00                               | n >S              | 3.7E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Biquinoline, 2,2'-                                         | 119-91-5   | 7.3E-02                               | n                 | 7.3E+00                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Bis (2-chloroethoxy) methane                               | 111-91-1   | 8.3E-04                               | c                 | 8.3E-02                                  | c                 | 8.0E+01                                                          | c                 | 1.0E+01                                                         | c                 | 1.9E-03                               | c                 | 1.9E-01                                  | c                 | 1.3E+02                                                          | c                 | 1.7E+01                                                         | c                 | —                                 |
| Bis (2-chloroethyl) ether                                  | 111-44-4   | 8.3E-04                               | c                 | 8.3E-02                                  | c                 | 9.3E+01                                                          | c                 | 1.2E+01                                                         | c                 | 1.9E-03                               | c                 | 1.9E-01                                  | c                 | 1.6E+02                                                          | c                 | 2.0E+01                                                         | c                 | —                                 |
| Bis (2-chloro-1-methylethyl) ether                         | 108-60-1   | 1.3E-02                               | c                 | 1.3E+00                                  | c                 | 8.7E+02                                                          | c                 | 1.1E+02                                                         | c                 | 2.9E-02                               | c                 | 2.9E+00                                  | c                 | 1.5E+03                                                          | c                 | 1.9E+02                                                         | c                 | —                                 |
| Bis (2-chloromethyl) ether                                 | 542-88-1   | 4.1E-06                               | c                 | 4.1E-04                                  | c                 | 8.5E-02                                                          | c                 | 1.1E-02                                                         | c                 | 9.3E-06                               | c                 | 9.3E-04                                  | c                 | 1.4E-01                                                          | c                 | 1.9E-02                                                         | c                 | —                                 |
| Bis (2-ethyl-hexyl) phthalate                              | 117-81-7   | 6.0E-03                               | m                 | 6.0E-01                                  | m >S              | —                                                                | —                 | —                                                               | —                 | 6.0E-03                               | m                 | 6.0E-01                                  | m >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Bismuth                                                    | 7440-69-9  | 1.2E+01                               | n                 | 1.2E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | 3.7E+01                               | n                 | 3.7E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Bisphenol A                                                | 80-05-7    | 1.2E+00                               | n                 | 1.2E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 3.7E+00                               | n                 | 3.7E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Boron                                                      | 7440-42-8  | 4.9E+00                               | n                 | 4.9E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E+01                               | n                 | 1.5E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Bromacil                                                   | 314-40-9   | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Bromo-2-chloroethane, 1-                                   | 107-04-0   | 9.8E-01                               | n                 | 9.8E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.9E+00                               | n                 | 2.9E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Bromobenzene                                               | 108-86-1   | 2.0E-01                               | n                 | 2.0E+01                                  | n                 | 2.3E+03                                                          | n >S              | 2.9E+02                                                         | n                 | 5.8E-01                               | n                 | 5.8E+01                                  | n                 | 3.2E+03                                                          | n >S              | 4.1E+02                                                         | n >S              | —                                 |
| Bromodichloromethane <sup>6</sup>                          | 75-27-4    | 8.0E-02                               | m                 | 8.0E+00                                  | m                 | —                                                                | —                 | —                                                               | —                 | 8.0E-02                               | m                 | 8.0E+00                                  | m                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Bromoform <sup>6</sup>                                     | 75-25-2    | 8.0E-02                               | m                 | 8.0E+00                                  | m                 | 5.1E+03                                                          | c >S              | 6.7E+02                                                         | c                 | 8.0E-02                               | m                 | 8.0E+00                                  | m                 | 8.6E+03                                                          | c >S              | 1.1E+03                                                         | c                 | —                                 |
| Bromomethane                                               | 74-83-9    | 3.4E-02                               | n                 | 3.4E+00                                  | n                 | 3.6E+01                                                          | n                 | 4.6E+00                                                         | n                 | 1.0E-01                               | n                 | 1.0E+01                                  | n                 | 5.0E+01                                                          | n                 | 6.5E+00                                                         | n                 | —                                 |
| Bromophenyl phenylether, 4-                                | 101-55-3   | 6.1E-05                               | c                 | 6.1E-03                                  | c                 | 1.6E+00                                                          | c >S              | 2.0E-01                                                         | c                 | 1.4E-04                               | c                 | 1.4E-02                                  | c                 | 2.7E+00                                                          | c >S              | 3.4E-01                                                         | c                 | —                                 |
| Butadiene, 1,3-                                            | 106-99-0   | —                                     | —                 | —                                        | —                 | 3.6E+01                                                          | n                 | 4.7E+00                                                         | n                 | —                                     | —                 | —                                        | —                 | 5.1E+01                                                          | n                 | 6.6E+00                                                         | n                 | —                                 |
| Butadiene, 2-methyl-1,3- (isoprene)                        | 78-79-5    | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 8.2E+04                                                          | n >S              | 1.1E+04                                                         | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n                 | 1.2E+05                                                          | n >S              | 1.5E+04                                                         | n >S              | —                                 |
| Butanal (butyraldehyde)                                    | 123-72-8   | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 2.0E+04                                                          | n                 | 2.6E+03                                                         | n                 | 4.4E+00                               | n                 | 4.4E+02                                  | n                 | 2.8E+04                                                          | n                 | 3.6E+03                                                         | n                 | —                                 |
| Butane, 2,3-dimethyl-                                      | 79-29-8    | 1.5E+00                               | n                 | 1.5E+02                                  | n >S              | 2.4E+03                                                          | n >S              | 3.0E+02                                                         | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n >S              | 3.3E+03                                                          | n >S              | 4.3E+02                                                         | n >S              | —                                 |
| Butanoic acid (butyric acid)                               | 107-92-6   | 1.2E+01                               | n                 | 1.2E+03                                  | n                 | 1.9E+04                                                          | n                 | 2.5E+03                                                         | n                 | 3.7E+01                               | n                 | 3.7E+03                                  | n                 | 2.7E+04                                                          | n                 | 3.4E+03                                                         | n                 | —                                 |
| Butanol, 2-                                                | 78-92-2    | 4.9E+01                               | n                 | 4.9E+03                                  | n                 | 1.0E+06                                                          | n >S              | 1.0E+06                                                         | n >S              | 1.5E+02                               | n                 | 1.5E+04                                  | n                 | 1.0E+06                                                          | n >S              | 1.0E+06                                                         | n >S              | —                                 |
| Butanol, 2-methyl-1-                                       | 137-32-6   | 2.4E-01                               | n                 | 2.4E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Butanol, 2-methyl-2-                                       | 75-85-4    | 2.4E-01                               | n                 | 2.4E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Butanol, n-                                                | 71-36-3    | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Butene, 1-                                                 | 106-98-9   | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 2.9E+03                                                          | n >S              | 3.8E+02                                                         | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n >S              | 4.1E+03                                                          | n >S              | 5.3E+02                                                         | n >S              | —                                 |
| Butene, cis-2-                                             | 590-18-1   | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 1.3E+03                                                          | n >S              | 1.7E+02                                                         | n                 | 4.4E+00                               | n                 | 4.4E+02                                  | n >S              | 1.8E+03                                                          | n >S              | 2.3E+02                                                         | n                 | —                                 |
| Butene, trans-2-                                           | 624-64-6   | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 1.3E+03                                                          | n >S              | 1.7E+02                                                         | n                 | 4.4E+00                               | n                 | 4.4E+02                                  | n >S              | 1.8E+03                                                          | n >S              | 2.3E+02                                                         | n                 | —                                 |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2   | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | 1.0E+06                                                          | n >S              | 1.0E+06                                                         | n >S              | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | 1.0E+06                                                          | n >S              | 1.0E+06                                                         | n >S              | —                                 |
| Butyl acetate                                              | 123-86-4   | 3.4E+00                               | n                 | 3.4E+02                                  | n                 | 7.0E+05                                                          | n >S              | 9.1E+04                                                         | n >S              | 1.0E+01                               | n                 | 1.0E+03                                  | n                 | 9.8E+05                                                          | n >S              | 1.3E+05                                                         | n >S              | —                                 |
| Butyl acrylate                                             | 141-32-2   | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 6.6E-01                               | n                 | 6.6E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Butyl benzyl phthalate                                     | 85-68-7    | 4.8E-01                               | c                 | 4.8E+01                                  | c >S              | —                                                                | —                 | —                                                               | —                 | 1.1E+00                               | c                 | 1.1E+02                                  | c >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Butyl ether, n- (dibutyl ether)                            | 142-96-1   | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Butyl methacrylate                                         | 97-88-1    | 2.2E+00                               | n                 | 2.2E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 6.6E+00                               | n                 | 6.6E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Butylate                                                   | 2008-41-5  | 1.2E+00                               | n                 | 1.2E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 3.7E+00                               | n                 | 3.7E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Butylbenzene, n-                                           | 104-51-8   | 1.2E+00                               | n                 | 1.2E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 3.7E+00                               | n                 | 3.7E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Butylbenzene, sec-                                         | 135-98-8   | 9.8E-01                               | n                 | 9.8E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 2.9E+00                               | n                 | 2.9E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Butylbenzene, tert-                                        | 98-06-6    | 9.8E-01                               | n                 | 9.8E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 2.9E+00                               | n                 | 2.9E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Cacodylic acid                                             | 75-60-5    | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Cadmium                                                    | 7440-43-9  | 5.0E-03                               | m >S              | 5.0E-01                                  | m >S              | —                                                                | —                 | —                                                               | —                 | 5.0E-03                               | m >S              | 5.0E-01                                  | m >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Calcium*                                                   | 7440-70-2  | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Caprolactam                                                | 105-60-2   | 1.2E+01                               | n                 | 1.2E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | 3.7E+01                               | n                 | 3.7E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Captan                                                     | 133-06-2   | 2.6E-01                               | c                 | 2.6E+01                                  | c >S              | —                                                                | —                 | —                                                               | —                 | 5.8E-01                               | c >S              | 5.8E+01                                  | c >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Carbaryl                                                   | 63-25-2    | 2.4E+00                               | n                 | 2.4E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Carbazole                                                  | 86-74-8    | 4.6E-02                               | c                 | 4.6E+00                                  | c >S              | —                                                                | —                 | —                                                               | —                 | 1.0E-01                               | c                 | 1.0E+01                                  | c >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Carbofuran                                                 | 1563-66-2  | 4.0E-02                               | m                 | 4.0E+00                                  | m                 | —                                                                | —                 | —                                                               | —                 | 4.0E-02                               | m                 | 4.0E+00                                  | m                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Carbon disulfide                                           | 75-15-0    | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | 4.9E+03                                                          | n >S              | 6.3E+02                                                         | n                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | 6.8E+03                                                          | n >S              | 8.8E+02                                                         | n                 | —                                 |
| Carbon tetrachloride                                       | 56-23-5    | 5.0E-03                               | m                 | 5.0E-01                                  | m                 | 3.3E+01                                                          | c                 | 4.2E+00                                                         | c                 | 5.0E-03                               | m                 | 5.0E-01                                  | m                 | 5.5E+01                                                          | c                 | 7.1E+00                                                         | c                 | —                                 |
| Carbophenothion                                            | 786-19-6   | 3.2E-01                               | n                 | 3.2E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 9.5E-01                               | n                 | 9.5E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Carbosulfan                                                | 55285-14-8 | 2.4E-01                               | n                 | 2.4E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 7.3E-01                               | n >S              | 7.3E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Carboxin                                                   | 5234-68-4  | 2.4E+00                               | n                 | 2.4E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Chloral                                                    | 75-87-6    | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)         | 302-17-0   | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid)      | 133-90-4   | 3.7E-01                               | n                 | 3.7E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.1E+00                               | n                 | 1.1E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Chlordane (technical)                                      | 12789-03-6 | 2.0E-03                               | m                 | 2.0E-01                                  | m >S              | 7.7E+02                                                          | c >S              | 9.9E+01                                                         | c >S              | 2.0E-03                               | m                 | 2.0E-01                                  | m >S              | 1.3E+03                                                          | c >S              | 1.7E+02                                                         | c >S              | —                                 |
| Chlordane, cis- (alpha chlordane)                          | 5103-71-9  | 2.6E-03                               | c                 | 2.6E-01                                  | c >S              | 1.5E+02                                                          | c >S              | 2.0E+01                                                         | c >S              | 5.8E-03                               | c                 | 5.8E-01                                  | c >S              | 2.6E+02                                                          | c >S              | 3.3E+01                                                         | c >S              | —                                 |
| Chlordane, trans- (gamma chlordane)                        | 5103-74-2  | 2.6E-03                               | c                 | 2.6E-01                                  | c >S              | 1.5E+02                                                          | c >S              | 2.0E+01                                                         | c >S              | 5.8E-03                               | c                 | 5.8E-01                                  | c >S              | 2.6E+02                                                          | c >S              | 3.3E+01                                                         | c >S              | —                                 |
| Chlorfenvinphos                                            | 470-90-6   | 1.7E-02                               | n                 | 1.7E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 5.1E-02                               | n                 | 5.1E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Chloride*                                                  | 16887-00-6 | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | 2.5E+02                           |
| Chlorine                                                   | 7782-50-5  | 4.0E+00                               | m                 | 4.0E+02                                  | m                 | 1.3E+01                                                          | n                 | 1.6E+00                                                         | n                 | 4.0E+00                               | m                 | 4.0E+02                                  | m                 | 1.8E+01                                                          | n                 | 2.3E+00                                                         | n                 | —                                 |
| Chloro-1,3-butadiene, 2-                                   | 126-99-8   | —                                     | —                 | —                                        | —                 | 2.8E-01                                                          | c                 | 3.7E-02                                                         | c                 | —                                     | —                 | —                                        | —                 | 4.7E-01                                                          | c                 | 6.1E-02                                                         | c                 | —                                 |
| Chloro-2-propanol, 1-                                      | 127-00-4   | 4.9E-01                               | n                 | 4.9E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Chloro-3-methylphenol, 4-                                  | 59-50-7    | 1.2E-01                               | n                 | 1.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 3.7E-01                               | n                 | 3.7E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Chloroaniline, p-                                          | 106-47-8   | 4.6E-03                               | c                 | 4.6E-01                                  | c                 | —                                                                | —                 | —                                                               | —                 | 1.0E-02                               | c                 | 1.0E+00                                  | c                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Chlorobenzene                                              | 108-90-7   | 1.0E-01                               | m                 | 1.0E+01                                  | m                 | 1.2E+03                                                          | n >S              | 1.5E+02                                                         | n                 | 1.0E-01                               | m                 | 1.0E+01                                  | m                 | 1.6E+03                                                          | n >S              | 2.1E+02                                                         | n                 | —                                 |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                               | CAS        | Residential                             |                   |                                            |                   |                                                                                 |                   |                                                                                |                   | Commercial/Industrial                   |                   |                                            |                   |                                                                                 |                   |                                                                                |                   | Secondary MCL <sup>5</sup> (mg/L) |
|---------------------------------------------------|------------|-----------------------------------------|-------------------|--------------------------------------------|-------------------|---------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------|-------------------|-----------------------------------------|-------------------|--------------------------------------------|-------------------|---------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------|-------------------|-----------------------------------|
|                                                   |            | GW <sup>GW<sub>Ing</sub> 2</sup> (mg/L) | note <sup>4</sup> | GW <sup>GW<sub>Class3</sub> 3</sup> (mg/L) | note <sup>4</sup> | Air <sup>Air</sup> GW <sup>GW<sub>Inh-V</sub></sup> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air <sup>Air</sup> GW <sup>GW<sub>Inh-V</sub></sup> 30 acre source area (mg/L) | note <sup>4</sup> | GW <sup>GW<sub>Ing</sub> 2</sup> (mg/L) | note <sup>4</sup> | GW <sup>GW<sub>Class3</sub> 3</sup> (mg/L) | note <sup>4</sup> | Air <sup>Air</sup> GW <sup>GW<sub>Inh-V</sub></sup> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air <sup>Air</sup> GW <sup>GW<sub>Inh-V</sub></sup> 30 acre source area (mg/L) | note <sup>4</sup> |                                   |
| Chlorobenzilate                                   | 510-15-6   | 3.4E-03                                 | c                 | 3.4E-01                                    | c                 | 7.0E+03                                                                         | c >S              | 9.0E+02                                                                        | c >S              | 7.6E-03                                 | c                 | 7.6E-01                                    | c                 | 1.2E+04                                                                         | c >S              | 1.5E+03                                                                        | c >S              | —                                 |
| Chlorobromomethane (bromochloromethane)           | 74-97-5    | 9.8E-01                                 | n                 | 9.8E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 2.9E+00                                 | n                 | 2.9E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chlorodifluoromethane                             | 75-45-6    | —                                       | —                 | —                                          | —                 | 1.7E+05                                                                         | n >S              | 2.2E+04                                                                        | n >S              | —                                       | —                 | —                                          | —                 | 2.4E+05                                                                         | n >S              | 3.1E+04                                                                        | n >S              | —                                 |
| Chloroethane (ethyl chloride)                     | 75-00-3    | 9.8E+00                                 | n                 | 9.8E+02                                    | n                 | 1.2E+05                                                                         | n >S              | 1.5E+04                                                                        | n >S              | 2.9E+01                                 | n                 | 2.9E+03                                    | n                 | 1.6E+05                                                                         | n >S              | 2.1E+04                                                                        | n >S              | —                                 |
| Chloroethanol, 2-                                 | 107-07-3   | 4.9E-01                                 | n                 | 4.9E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 1.5E+00                                 | n                 | 1.5E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether) | 110-75-8   | 8.3E-04                                 | c                 | 8.3E-02                                    | c                 | 2.0E+01                                                                         | n                 | 2.5E+00                                                                        | n                 | 1.9E-03                                 | c                 | 1.9E-01                                    | c                 | 2.7E+01                                                                         | n                 | 3.5E+00                                                                        | n                 | —                                 |
| Chloroform <sup>6</sup>                           | 67-66-3    | 8.0E-02                                 | m                 | 8.0E+00                                    | m                 | 2.0E+01                                                                         | c                 | 2.6E+00                                                                        | c                 | 8.0E-02                                 | m                 | 8.0E+00                                    | m                 | 3.3E+01                                                                         | c                 | 4.3E+00                                                                        | c                 | —                                 |
| Chlorohexane, 1-                                  | 544-10-5   | 9.8E-01                                 | n                 | 9.8E+01                                    | n >S              | 7.3E+03                                                                         | n >S              | 9.4E+02                                                                        | n >S              | 2.9E+00                                 | n                 | 2.9E+02                                    | n >S              | 1.0E+04                                                                         | n >S              | 1.3E+03                                                                        | n >S              | —                                 |
| Chloromethane (methyl chloride)                   | 74-87-3    | 7.0E-02                                 | c                 | 7.0E+00                                    | c                 | 3.6E+01                                                                         | c                 | 4.7E+00                                                                        | c                 | 1.6E-01                                 | c                 | 1.6E+01                                    | c                 | 6.1E+01                                                                         | c                 | 7.9E+00                                                                        | c                 | —                                 |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-) | 90-13-1    | 2.0E+00                                 | n                 | 2.0E+02                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 5.8E+00                                 | n                 | 5.8E+02                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chloronaphthalene, 2- (chloronaphthalene, beta)   | 91-58-7    | 2.0E+00                                 | n                 | 2.0E+02                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 5.8E+00                                 | n                 | 5.8E+02                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)  | 100-00-5   | 2.4E-02                                 | n                 | 2.4E+00                                    | n                 | 7.6E+02                                                                         | n >S              | 9.9E+01                                                                        | n                 | 7.3E-02                                 | n                 | 7.3E+00                                    | n                 | 1.1E+03                                                                         | n >S              | 1.4E+02                                                                        | n                 | —                                 |
| Chlorophenol, 2-                                  | 95-57-8    | 1.2E-01                                 | n                 | 1.2E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 3.7E-01                                 | n                 | 3.7E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chlorophenol, 3-                                  | 108-43-0   | 1.2E-01                                 | n                 | 1.2E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 3.7E-01                                 | n                 | 3.7E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chlorophenol, 4-                                  | 106-48-9   | 1.2E-01                                 | n                 | 1.2E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 3.7E-01                                 | n                 | 3.7E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chlorophenyl phenylether, 4-                      | 7005-72-3  | 6.1E-05                                 | c                 | 6.1E-03                                    | c                 | 1.2E+00                                                                         | c                 | 1.6E-01                                                                        | c                 | 1.4E-04                                 | c                 | 1.4E-02                                    | c                 | 2.1E+00                                                                         | c >S              | 2.7E-01                                                                        | c                 | —                                 |
| Chloropropane, 2-                                 | 75-29-6    | 7.3E-01                                 | n                 | 7.3E+01                                    | n                 | 4.7E+02                                                                         | n                 | 6.0E+01                                                                        | n                 | 2.2E+00                                 | n                 | 2.2E+02                                    | n                 | 6.5E+02                                                                         | n                 | 8.5E+01                                                                        | n                 | —                                 |
| Chlorothalonil                                    | 1897-45-6  | 8.3E-02                                 | c                 | 8.3E+00                                    | c                 | —                                                                               | —                 | —                                                                              | —                 | 1.9E-01                                 | c                 | 1.9E+01                                    | c                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chlorotoluene, o- (2-chlorotoluene)               | 95-49-8    | 4.9E-01                                 | n                 | 4.9E+01                                    | n                 | 2.4E+04                                                                         | n >S              | 3.1E+03                                                                        | n >S              | 1.5E+00                                 | n                 | 1.5E+02                                    | n                 | 3.3E+04                                                                         | n >S              | 4.3E+03                                                                        | n >S              | —                                 |
| Chlorotoluene, p- (4-chlorotoluene)               | 106-43-4   | 4.9E-01                                 | n                 | 4.9E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 1.5E+00                                 | n                 | 1.5E+02                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chlorpyrifos                                      | 2921-88-2  | 7.3E-02                                 | n                 | 7.3E+00                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 2.2E-01                                 | n                 | 2.2E+01                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chromium (III)                                    | 16065-83-1 | 1.0E-01                                 | m >S              | 1.0E+01                                    | m >S              | —                                                                               | —                 | —                                                                              | —                 | 1.0E-01                                 | m >S              | 1.0E+01                                    | m >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chromium (total)                                  | 7440-47-3  | 1.0E-01                                 | m >S              | 1.0E+01                                    | m >S              | —                                                                               | —                 | —                                                                              | —                 | 1.0E-01                                 | m >S              | 1.0E+01                                    | m >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chromium (VI)                                     | 18540-29-9 | 1.0E-01                                 | m >S              | 1.0E+01                                    | m >S              | —                                                                               | —                 | —                                                                              | —                 | 1.0E-01                                 | m >S              | 1.0E+01                                    | m >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Chrysene                                          | 218-01-9   | 9.1E-01                                 | c >S              | 9.1E+01                                    | c >S              | 8.6E+05                                                                         | c >S              | 1.1E+05                                                                        | c >S              | 2.0E+00                                 | c >S              | 2.0E+02                                    | c >S              | 1.0E+06                                                                         | c >S              | 1.9E+05                                                                        | c >S              | —                                 |
| Cobalt                                            | 7440-48-4  | 2.4E-01                                 | n >S              | 2.4E+01                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 7.3E-01                                 | n >S              | 7.3E+01                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Copolymer acrylamide                              | 69418-26-4 | 4.9E-03                                 | n                 | 4.9E-01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 1.5E-02                                 | n                 | 1.5E+00                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Copper                                            | 7440-50-8  | 1.3E+00                                 | e >S              | 1.3E+02                                    | e >S              | —                                                                               | —                 | —                                                                              | —                 | 1.3E+00                                 | e >S              | 1.3E+02                                    | e >S              | —                                                                               | —                 | —                                                                              | —                 | 1.0E+00                           |
| Coronene                                          | 191-07-1   | 4.9E-02                                 | n >S              | 4.9E+00                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 1.5E-01                                 | n >S              | 1.5E+01                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Coumaphos                                         | 56-72-4    | 1.7E-01                                 | n                 | 1.7E+01                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 5.1E-01                                 | n >S              | 5.1E+01                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cresol                                            | 1319-77-3  | 1.2E+00                                 | n                 | 1.2E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 3.7E+00                                 | n                 | 3.7E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cresol, m- (3-methylphenol)                       | 108-39-4   | 1.2E+00                                 | n                 | 1.2E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 3.7E+00                                 | n                 | 3.7E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cresol, o- (2-methylphenol)                       | 95-48-7    | 1.2E+00                                 | n                 | 1.2E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 3.7E+00                                 | n                 | 3.7E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cresol, p- (4-methylphenol)                       | 106-44-5   | 1.2E-01                                 | n                 | 1.2E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 3.7E-01                                 | n                 | 3.7E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Crotonaldehyde                                    | 123-73-9   | 4.8E-04                                 | c                 | 4.8E-02                                    | c                 | —                                                                               | —                 | —                                                                              | —                 | 1.1E-03                                 | c                 | 1.1E-01                                    | c                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cumene (isopropylbenzene)                         | 98-82-8    | 2.4E+00                                 | n                 | 2.4E+02                                    | n >S              | 4.4E+03                                                                         | n >S              | 5.7E+02                                                                        | n >S              | 7.3E+00                                 | n                 | 7.3E+02                                    | n >S              | 6.2E+03                                                                         | n >S              | 8.0E+02                                                                        | n >S              | —                                 |
| Cyanazine                                         | 21725-46-2 | 1.1E-03                                 | c                 | 1.1E-01                                    | c                 | —                                                                               | —                 | —                                                                              | —                 | 2.4E-03                                 | c                 | 2.4E-01                                    | c                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cyanide                                           | 57-12-5    | 2.0E-01                                 | m                 | 2.0E+01                                    | m                 | —                                                                               | —                 | —                                                                              | —                 | 2.0E-01                                 | m                 | 2.0E+01                                    | m                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cyanoquin                                         | 460-19-5   | 2.4E-02                                 | n                 | 2.4E+00                                    | n                 | 7.3E+00                                                                         | n                 | 9.4E-01                                                                        | n                 | 7.3E-02                                 | n                 | 7.3E+00                                    | n                 | 1.0E+01                                                                         | n                 | 1.3E+00                                                                        | n                 | —                                 |
| Cycloate                                          | 1134-23-2  | 1.3E+00                                 | n                 | 1.3E+02                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 4.0E+00                                 | n                 | 4.0E+02                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cyclohexane                                       | 110-82-7   | 1.2E+02                                 | n >S              | 1.2E+04                                    | n >S              | 5.9E+03                                                                         | n >S              | 7.7E+02                                                                        | n >S              | 3.7E+02                                 | n >S              | 3.7E+04                                    | n >S              | 8.3E+03                                                                         | n >S              | 1.1E+03                                                                        | n >S              | —                                 |
| Cyclohexanol                                      | 108-93-0   | 1.2E+02                                 | n >S              | 1.2E+04                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 3.7E+02                                 | n >S              | 3.7E+04                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cyclohexanone                                     | 108-94-1   | 1.2E+02                                 | n                 | 1.2E+04                                    | n                 | 1.0E+06                                                                         | n >S              | 1.8E+05                                                                        | n >S              | 3.7E+02                                 | n                 | 3.7E+04                                    | n >S              | 1.0E+06                                                                         | n >S              | 2.5E+05                                                                        | n >S              | —                                 |
| Cyclohexene, 1-methanol-3-                        | 1679-51-2  | 4.9E-01                                 | n                 | 4.9E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 1.5E+00                                 | n                 | 1.5E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cyclohexene, 4-vinyl-1-                           | 100-40-3   | 5.4E-01                                 | n                 | 5.4E+01                                    | n >S              | 1.1E+03                                                                         | n >S              | 1.4E+02                                                                        | n >S              | 1.6E+00                                 | n                 | 1.6E+02                                    | n >S              | 1.5E+03                                                                         | n >S              | 2.0E+02                                                                        | n >S              | —                                 |
| Cyclopentane                                      | 287-92-3   | 1.5E+00                                 | n                 | 1.5E+02                                    | n                 | 3.7E+04                                                                         | n >S              | 4.8E+03                                                                        | n >S              | 4.4E+00                                 | n                 | 4.4E+02                                    | n >S              | 5.1E+04                                                                         | n >S              | 6.7E+03                                                                        | n >S              | —                                 |
| Cyclopentane, methyl-                             | 96-37-7    | 2.4E+00                                 | n                 | 2.4E+02                                    | n >S              | 6.8E+02                                                                         | n >S              | 8.8E+01                                                                        | n >S              | 7.3E+00                                 | n                 | 7.3E+02                                    | n >S              | 9.5E+02                                                                         | n >S              | 1.2E+02                                                                        | n >S              | —                                 |
| Cyclopentene                                      | 142-29-0   | 1.2E+02                                 | n                 | 1.2E+04                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 3.7E+02                                 | n                 | 3.7E+04                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cyclotetramethylenetetranitramine (HMX)           | 2691-41-0  | 1.2E+00                                 | n                 | 1.2E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 3.7E+00                                 | n                 | 3.7E+02                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cyclotrimethylenetrinitramine (RDX)               | 121-82-4   | 1.1E-02                                 | c                 | 1.1E+00                                    | c                 | —                                                                               | —                 | —                                                                              | —                 | 2.6E-02                                 | c                 | 2.6E+00                                    | c                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cymene (isopropyltoluene)                         | 99-87-6    | 2.4E+00                                 | n                 | 2.4E+02                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 7.3E+00                                 | n                 | 7.3E+02                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Cymoxanil                                         | 57966-95-7 | 3.2E-01                                 | n                 | 3.2E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | 9.5E-01                                 | n                 | 9.5E+01                                    | n                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Dacthal (DCPA)                                    | 1861-32-1  | 2.4E-01                                 | n >S              | 2.4E+01                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | 7.3E-01                                 | n >S              | 7.3E+01                                    | n >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| Dalapon, sodium salt (2,2-dichloropropanoic acid) | 75-99-0    | 2.0E-01                                 | m                 | 2.0E+01                                    | m                 | —                                                                               | —                 | —                                                                              | —                 | 2.0E-01                                 | m                 | 2.0E+01                                    | m                 | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| DDD                                               | 72-54-8    | 3.8E-03                                 | c                 | 3.8E-01                                    | c >S              | —                                                                               | —                 | —                                                                              | —                 | 8.5E-03                                 | c                 | 8.5E-01                                    | c >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| DDE                                               | 72-55-9    | 2.7E-03                                 | c                 | 2.7E-01                                    | c >S              | —                                                                               | —                 | —                                                                              | —                 | 6.0E-03                                 | c                 | 6.0E-01                                    | c >S              | —                                                                               | —                 | —                                                                              | —                 | —                                 |
| DDT                                               | 50-29-3    | 2.7E-03                                 | c                 | 2.7E-01                                    | c >S              | 6.2E+02                                                                         | c >S              | 8.1E+01                                                                        | c >S              | 6.0E-03                                 | c >S              | 6.0E-01                                    | c >S              | 1.0E+03                                                                         | c >S              | 1.4E+02                                                                        | c >S              | —                                 |
| Demeton                                           | 8065-48-3  | 9.8E-04                                 | n                 | 9.8E-02                                    | n                 | —                                                                               |                   |                                                                                |                   |                                         |                   |                                            |                   |                                                                                 |                   |                                                                                |                   |                                   |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                                      | CAS        | Residential                           |                   |                                          |                   |                                                                  |                   |                                                                 |                   | Commercial/Industrial                 |                   |                                          |                   |                                                                  |                   |                                                                 |                   | Secondary MCL <sup>5</sup> (mg/L) |
|----------------------------------------------------------|------------|---------------------------------------|-------------------|------------------------------------------|-------------------|------------------------------------------------------------------|-------------------|-----------------------------------------------------------------|-------------------|---------------------------------------|-------------------|------------------------------------------|-------------------|------------------------------------------------------------------|-------------------|-----------------------------------------------------------------|-------------------|-----------------------------------|
|                                                          |            | GW <sup>2</sup> <sub>Ing</sub> (mg/L) | note <sup>4</sup> | GW <sup>3</sup> <sub>Class3</sub> (mg/L) | note <sup>4</sup> | Air <sup>1</sup> GW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air <sup>1</sup> GW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> | GW <sup>2</sup> <sub>Ing</sub> (mg/L) | note <sup>4</sup> | GW <sup>3</sup> <sub>Class3</sub> (mg/L) | note <sup>4</sup> | Air <sup>1</sup> GW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air <sup>1</sup> GW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> |                                   |
| Dibenzothiophene                                         | 132-65-0   | 7.3E-02                               | n                 | 7.3E+00                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n >S              | 2.2E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dibromo-3-chloropropane, 1,2-                            | 96-12-8    | 2.0E-04                               | m                 | 2.0E-02                                  | m                 | 6.2E-01                                                          | c                 | 8.0E-02                                                         | c                 | 2.0E-04                               | m                 | 2.0E-02                                  | m                 | 1.0E+00                                                          | c                 | 1.3E-01                                                         | c                 | —                                 |
| Dibromochloromethane (chlorodibromomethane) <sup>6</sup> | 124-48-1   | 8.0E-02                               | m                 | 8.0E+00                                  | m                 | —                                                                | —                 | —                                                               | —                 | 8.0E-02                               | m                 | 8.0E+00                                  | m                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dibromofluoromethane                                     | 1868-53-7  | 4.9E+00                               | n                 | 4.9E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E+01                               | n                 | 1.5E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dicamba                                                  | 1918-00-9  | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.2E+00                               | n                 | 2.2E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichlormid                                               | 37764-25-3 | 6.1E-01                               | n                 | 6.1E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.8E+00                               | n                 | 1.8E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichloro-2-butene, 1,4-                                  | 764-41-0   | —                                     | —                 | —                                        | —                 | 6.7E-01                                                          | c                 | 8.7E-02                                                         | c                 | —                                     | —                 | —                                        | —                 | 1.1E+00                                                          | c                 | 1.5E-01                                                         | c                 | —                                 |
| Dichloro-2-butene, 1,4- trans                            | 110-57-6   | —                                     | —                 | —                                        | —                 | 6.5E-01                                                          | c                 | 8.5E-02                                                         | c                 | —                                     | —                 | —                                        | —                 | 1.1E+00                                                          | c                 | 1.4E-01                                                         | c                 | —                                 |
| Dichlorobenzene, 1,2-                                    | 95-50-1    | 6.0E-01                               | m                 | 6.0E+01                                  | m                 | 1.2E+03                                                          | n >S              | 1.5E+02                                                         | n                 | 6.0E-01                               | m                 | 6.0E+01                                  | m                 | 1.6E+03                                                          | n >S              | 2.1E+02                                                         | n >S              | —                                 |
| Dichlorobenzene, 1,3-                                    | 541-73-1   | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | 1.9E+02                                                          | n >S              | 2.5E+01                                                         | n                 | 2.2E+00                               | n                 | 2.2E+02                                  | n >S              | 2.7E+02                                                          | n >S              | 3.4E+01                                                         | n                 | —                                 |
| Dichlorobenzene, 1,4-                                    | 106-46-7   | 7.5E-02                               | m                 | 7.5E+00                                  | m                 | 1.7E+04                                                          | n >S              | 2.2E+03                                                         | n >S              | 7.5E-02                               | m                 | 7.5E+00                                  | m                 | 2.4E+04                                                          | n >S              | 3.1E+03                                                         | n >S              | —                                 |
| Dichlorobenzidine, 3,3'-                                 | 91-94-1    | 2.0E-03                               | c                 | 2.0E-01                                  | c                 | —                                                                | —                 | —                                                               | —                 | 4.5E-03                               | c                 | 4.5E-01                                  | c                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichlorobutane, 2,3-                                     | 7581-97-7  | 2.4E-01                               | n                 | 2.4E+01                                  | n                 | 1.4E+02                                                          | n                 | 1.9E+01                                                         | n                 | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | 2.0E+02                                                          | n                 | 2.6E+01                                                         | n                 | —                                 |
| Dichlorodifluoromethane                                  | 75-71-8    | 4.9E+00                               | n                 | 4.9E+02                                  | n >S              | 6.0E+01                                                          | n                 | 7.8E+00                                                         | n                 | 1.5E+01                               | n                 | 1.5E+03                                  | n >S              | 8.4E+01                                                          | n                 | 1.1E+01                                                         | n                 | —                                 |
| Dichloroethane, 1,1-                                     | 75-34-3    | 4.9E+00                               | n                 | 4.9E+02                                  | n                 | 4.3E+04                                                          | n >S              | 5.6E+03                                                         | n >S              | 1.5E+01                               | n                 | 1.5E+03                                  | n                 | 6.0E+04                                                          | n >S              | 7.8E+03                                                         | n >S              | —                                 |
| Dichloroethane, 1,2-                                     | 107-06-2   | 5.0E-03                               | m                 | 5.0E-01                                  | m                 | 2.5E+02                                                          | c                 | 3.3E+01                                                         | c                 | 5.0E-03                               | m                 | 5.0E-01                                  | m                 | 4.2E+02                                                          | c                 | 5.5E+01                                                         | c                 | —                                 |
| Dichloroethylene, 1,1-                                   | 75-35-4    | 7.0E-03                               | m                 | 7.0E-01                                  | m                 | 1.7E+03                                                          | n                 | 2.2E+02                                                         | n                 | 7.0E-03                               | m                 | 7.0E-01                                  | m                 | 2.3E+03                                                          | n                 | 3.0E+02                                                         | n                 | —                                 |
| Dichloroethylene, cis-1,2-                               | 156-59-2   | 7.0E-02                               | m                 | 7.0E+00                                  | m                 | 1.2E+03                                                          | n                 | 1.6E+02                                                         | n                 | 7.0E-02                               | m                 | 7.0E+00                                  | m                 | 1.7E+03                                                          | n                 | 2.2E+02                                                         | n                 | —                                 |
| Dichloroethylene, trans-1,2                              | 156-60-5   | 1.0E-01                               | m                 | 1.0E+01                                  | m                 | 7.7E+02                                                          | n                 | 9.9E+01                                                         | n                 | 1.0E-01                               | m                 | 1.0E+01                                  | m                 | 1.1E+03                                                          | n                 | 1.4E+02                                                         | n                 | —                                 |
| Dichlorofluoromethane                                    | 75-43-4    | 4.9E+00                               | n                 | 4.9E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E+01                               | n                 | 1.5E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichlorophenol, 2,3-                                     | 576-24-9   | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichlorophenol, 2,4-                                     | 120-83-2   | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichlorophenol, 2,5-                                     | 583-78-8   | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichlorophenol, 2,6-                                     | 87-65-0    | 2.4E-02                               | n                 | 2.4E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichlorophenol, 3,4-                                     | 95-77-2    | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichlorophenol, 3,5-                                     | 591-35-5   | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)          | 94-82-6    | 2.0E-01                               | n                 | 2.0E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 5.8E-01                               | n                 | 5.8E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)                 | 94-75-7    | 7.0E-02                               | m                 | 7.0E+00                                  | m                 | —                                                                | —                 | —                                                               | —                 | 7.0E-02                               | m                 | 7.0E+00                                  | m                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid)    | 120-36-5   | 2.4E-01                               | n                 | 2.4E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichloropropane, 1,2-                                    | 78-87-5    | 5.0E-03                               | m                 | 5.0E-01                                  | m                 | 1.2E+02                                                          | n                 | 1.5E+01                                                         | n                 | 5.0E-03                               | m                 | 5.0E-01                                  | m                 | 1.6E+02                                                          | n                 | 2.1E+01                                                         | n                 | —                                 |
| Dichloropropane, 1,3-                                    | 142-28-9   | 9.1E-03                               | c                 | 9.1E-01                                  | c                 | 2.5E+02                                                          | c                 | 3.3E+01                                                         | c                 | 2.0E-02                               | c                 | 2.0E+00                                  | c                 | 4.3E+02                                                          | c                 | 5.5E+01                                                         | c                 | —                                 |
| Dichloropropane, 2,2-                                    | 594-20-7   | 1.3E-02                               | c                 | 1.3E+00                                  | c                 | 5.7E+01                                                          | n                 | 7.3E+00                                                         | n                 | 3.0E-02                               | c                 | 3.0E+00                                  | c                 | 7.9E+01                                                          | n                 | 1.0E+01                                                         | n                 | —                                 |
| Dichloropropanol, 2,3-                                   | 616-23-9   | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dichloropropene, 1,1-                                    | 563-58-6   | 9.1E-03                               | c                 | 9.1E-01                                  | c                 | 1.9E+01                                                          | c                 | 2.5E+00                                                         | c                 | 2.0E-02                               | c                 | 2.0E+00                                  | c                 | 3.2E+01                                                          | c                 | 4.2E+00                                                         | c                 | —                                 |
| Dichloropropene, 1,3- (mixed isomers)                    | 542-75-6   | 9.1E-03                               | c                 | 9.1E-01                                  | c                 | 1.8E+02                                                          | c                 | 2.3E+01                                                         | c                 | 2.0E-02                               | c                 | 2.0E+00                                  | c                 | 3.0E+02                                                          | c                 | 3.8E+01                                                         | c                 | —                                 |
| Dichloropropene, cis 1,3-                                | 10061-01-5 | 1.7E-03                               | c                 | 1.7E-01                                  | c                 | 6.9E+02                                                          | n                 | 8.9E+01                                                         | n                 | 3.8E-03                               | c                 | 3.8E-01                                  | c                 | 9.7E+02                                                          | n                 | 1.2E+02                                                         | n                 | —                                 |
| Dichloropropene, trans 1,3-                              | 10061-02-6 | 9.1E-03                               | c                 | 9.1E-01                                  | c                 | 1.9E+02                                                          | c                 | 2.5E+01                                                         | c                 | 2.0E-02                               | c                 | 2.0E+00                                  | c                 | 3.2E+02                                                          | c                 | 4.1E+01                                                         | c                 | —                                 |
| Dichlorvos                                               | 62-73-7    | 3.1E-03                               | c                 | 3.1E-01                                  | c                 | 1.0E+04                                                          | n                 | 1.3E+03                                                         | n                 | 7.0E-03                               | c                 | 7.0E-01                                  | c                 | 1.4E+04                                                          | n                 | 1.8E+03                                                         | n                 | —                                 |
| Dicrotophos (bidrin)                                     | 141-66-2   | 2.4E-03                               | n                 | 2.4E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E-03                               | n                 | 7.3E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dicyclopentadiene                                        | 77-73-6    | 2.0E+00                               | n                 | 2.0E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 5.8E+00                               | n                 | 5.8E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dieldrin                                                 | 60-57-1    | 5.7E-05                               | c                 | 5.7E-03                                  | c                 | 1.3E+02                                                          | c >S              | 1.6E+01                                                         | c >S              | 1.3E-04                               | c                 | 1.3E-02                                  | c                 | 2.1E+02                                                          | c >S              | 2.8E+01                                                         | c >S              | —                                 |
| Diethanolamine                                           | 111-42-2   | 1.2E-02                               | n                 | 1.2E+00                                  | n                 | 1.0E+06                                                          | n                 | 1.0E+06                                                         | n                 | 3.7E-02                               | n                 | 3.7E+00                                  | n                 | 1.0E+06                                                          | n                 | 1.0E+06                                                         | n                 | —                                 |
| Diethylidithiocarbamate, sodium salt                     | 148-18-5   | 3.4E-03                               | c                 | 3.4E-01                                  | c                 | —                                                                | —                 | —                                                               | —                 | 7.6E-03                               | c                 | 7.6E-01                                  | c                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Diethyl phthalate                                        | 84-66-2    | 2.0E+01                               | n                 | 2.0E+03                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 5.8E+01                               | n                 | 5.8E+03                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Diethylene glycol                                        | 111-46-6   | 4.9E+01                               | n                 | 4.9E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E+02                               | n                 | 1.5E+04                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Diethylene glycol monobutyl ether                        | 112-34-5   | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | 3.2E+03                                                          | n                 | 4.1E+02                                                         | n                 | 2.2E+00                               | n                 | 2.2E+02                                  | n                 | 4.5E+03                                                          | n                 | 5.8E+02                                                         | n                 | —                                 |
| Diethylhexyl adipate                                     | 103-23-1   | 4.0E-01                               | m >S              | 4.0E+01                                  | m >S              | —                                                                | —                 | —                                                               | —                 | 4.0E-01                               | m >S              | 4.0E+01                                  | m >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Diethylstilbestrol                                       | 56-53-1    | 1.9E-07                               | c                 | 1.9E-05                                  | c                 | —                                                                | —                 | —                                                               | —                 | 4.3E-07                               | c                 | 4.3E-05                                  | c                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)              | 107-39-1   | 1.5E+00                               | n                 | 1.5E+02                                  | n >S              | 2.3E+01                                                          | n >S              | 3.0E+00                                                         | n                 | 4.4E+00                               | n >S              | 4.4E+02                                  | n >S              | 3.2E+01                                                          | n >S              | 4.2E+00                                                         | n >S              | —                                 |
| Diisopropylbenzene, p-                                   | 100-18-5   | 2.4E-01                               | n                 | 2.4E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 7.3E-01                               | n                 | 7.3E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Diisopropyl ether (2,2'-oxybis-propane)                  | 108-20-3   | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | 2.0E+04                                                          | n >S              | 2.5E+03                                                         | n                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | 2.7E+04                                                          | n >S              | 3.5E+03                                                         | n >S              | —                                 |
| Dimethenamid                                             | 87674-68-8 | 3.7E-01                               | n                 | 3.7E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.1E+00                               | n                 | 1.1E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dimethoate                                               | 60-51-5    | 4.9E-03                               | n                 | 4.9E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E-02                               | n                 | 1.5E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dimethoxybenzidine, 3,3'-                                | 119-90-4   | 6.5E-02                               | c                 | 6.5E+00                                  | c                 | —                                                                | —                 | —                                                               | —                 | 1.5E-01                               | c                 | 1.5E+01                                  | c                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dimethyl-2-nitrobenzene, 1,3-                            | 81-20-9    | 4.9E-02                               | n                 | 4.9E+00                                  | n                 | 1.1E+04                                                          | n >S              | 1.4E+03                                                         | n >S              | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | 1.5E+04                                                          | n >S              | 2.0E+03                                                         | n >S              | —                                 |
| Dimethyl-3-nitrobenzene, 1,2-                            | 83-41-0    | 4.9E-02                               | n                 | 4.9E+00                                  | n                 | 1.3E+04                                                          | n >S              | 1.7E+03                                                         | n >S              | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | 1.9E+04                                                          | n >S              | 2.4E+03                                                         | n >S              | —                                 |
| Dimethyl-4-nitrobenzene, 1-2-                            | 99-51-4    | 4.9E-02                               | n                 | 4.9E+00                                  | n                 | 1.5E+04                                                          | n >S              | 1.9E+03                                                         | n >S              | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | 2.1E+04                                                          | n >S              | 2.7E+03                                                         | n >S              | —                                 |
| Dimethyl-5-nitrobenzene, 1,3-                            | 99-12-7    | 4.9E-02                               | n                 | 4.9E+00                                  | n                 | 9.5E+03                                                          | n >S              | 1.2E+03                                                         | n >S              | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | 1.3E+04                                                          | n >S              | 1.7E+03                                                         | n >S              | —                                 |
| Dimethylphenethylamine, alpha, alpha-                    | 122-09-8   | 4.9E-02                               | n                 | 4.9E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dimethyl phenol, 2,4-                                    | 105-67-9   | 4.9E-01                               | n                 | 4.9E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dimethylaminoazobenzene, p-                              | 60-11-7    | 2.4E-04                               | n                 | 2.4E-02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E-04                               | n                 | 7.3E-02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dimethylbenz-a-anthracene, 7,12-                         | 57-97-6    | 3.7E-06                               | c                 | 3.7E-04                                  | c                 | 3.3E+01                                                          | c >S              | 4.3E+00                                                         | c >S              | 8.2E-06                               | c                 | 8.2E-04                                  | c                 | 5.5E+01                                                          | c >S              | 7.2E+00                                                         | c >S              | —                                 |
| Dimethylbenzidine, 3,3'-                                 | 119-93-7   | 8.3E-05                               | c                 | 8.3E-03                                  | c                 | —                                                                | —                 | —                                                               | —                 | 1.9E-04                               | c                 | 1.9E-02                                  | c                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dimethylformamide, N,N-                                  | 68-12-2    | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | 3.7E+05                                                          | n                 | 4.8E+04                                                         | n                 | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | 5.2E+05                                                          | n                 | 6.8E+04                                                         | n                 | —                                 |
| Dimethylinaphthalene, 1,3-                               | 575-41-7   | 9.8E-01                               | n                 | 9.8E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 2.9E+00                               | n                 | 2.9E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dimethylphthalate                                        | 131-11-3   | 2.0E+01                               | n                 | 2.0E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | 5.8E+01                               | n                 | 5.8E+03                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Di-n-butyl phthalate                                     | 84-74-2    | 2.4E+00                               | n                 | 2.4E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 7.3E+00                               | n                 | 7.3E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)   | 534-52-1   | 2.4E-03                               | n                 | 2.4E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E-03                               | n                 | 7.3E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)              | 99-65-0    | 2.4E-03                               | n                 | 2.4E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E-03                               | n                 | 7.3E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                                           | CAS        | Residential                                         |                   |                                                     |                   |                                                                    |                   |                                                                        |                   | Commercial/Industrial                               |                   |                                                     |                   |                                                                         |                   |                                                                        |                   | Secondary<br>MCL <sup>5</sup><br>(mg/L) |
|---------------------------------------------------------------|------------|-----------------------------------------------------|-------------------|-----------------------------------------------------|-------------------|--------------------------------------------------------------------|-------------------|------------------------------------------------------------------------|-------------------|-----------------------------------------------------|-------------------|-----------------------------------------------------|-------------------|-------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------|-------------------|-----------------------------------------|
|                                                               |            | GW <sup>2</sup> <sub>GW<sup>2</sup></sub><br>(mg/L) | note <sup>4</sup> | GW <sup>3</sup> <sub>GW<sup>3</sup></sub><br>(mg/L) | note <sup>4</sup> | Air <sup>GW<sup>1</sup></sup> <sub>0.5 acre source</sub><br>(mg/L) | note <sup>4</sup> | Air <sup>GW<sup>1</sup></sup> <sub>30 acre source area</sub><br>(mg/L) | note <sup>4</sup> | GW <sup>2</sup> <sub>GW<sup>2</sup></sub><br>(mg/L) | note <sup>4</sup> | GW <sup>3</sup> <sub>GW<sup>3</sup></sub><br>(mg/L) | note <sup>4</sup> | Air <sup>GW<sup>1</sup></sup> <sub>0.5 acre source area</sub><br>(mg/L) | note <sup>4</sup> | Air <sup>GW<sup>1</sup></sup> <sub>30 acre source area</sub><br>(mg/L) | note <sup>4</sup> |                                         |
| Dinitrobenzene, 1,4-                                          | 100-25-4   | 2.4E-03                                             | n                 | 2.4E-01                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 7.3E-03                                             | n                 | 7.3E-01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Dinitrophenol, 2,4-                                           | 51-28-5    | 4.9E-02                                             | n                 | 4.9E+00                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.5E-01                                             | n                 | 1.5E+01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Dinitrophenol, 2,5-                                           | 329-71-5   | 4.9E-02                                             | n                 | 4.9E+00                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.5E-01                                             | n                 | 1.5E+01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Dinitrotoluene, 2,4-                                          | 121-14-2   | 1.3E-03                                             | c                 | 1.3E-01                                             | c                 | —                                                                  | —                 | —                                                                      | —                 | 3.0E-03                                             | c                 | 3.0E-01                                             | c                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Dinitrotoluene, 2,6-                                          | 606-20-2   | 1.3E-03                                             | c                 | 1.3E-01                                             | c                 | —                                                                  | —                 | —                                                                      | —                 | 3.0E-03                                             | c                 | 3.0E-01                                             | c                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Di-n-octyl phthalate                                          | 117-84-0   | 2.4E-01                                             | n >S              | 2.4E+01                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 7.3E-01                                             | n >S              | 7.3E+01                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Dinoseb                                                       | 88-85-7    | 7.0E-03                                             | m                 | 7.0E-01                                             | m                 | —                                                                  | —                 | —                                                                      | —                 | 7.0E-03                                             | m                 | 7.0E-01                                             | m                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Dioxane 1,4-                                                  | 123-91-1   | 9.1E-03                                             | c                 | 9.1E-01                                             | c                 | 7.7E+03                                                            | c                 | 1.0E+03                                                                | c                 | 2.0E-02                                             | c                 | 2.0E+00                                             | c                 | 1.3E+04                                                                 | c                 | 1.7E+03                                                                | c                 | —                                       |
| Dioxin (as 2,3,7,8-TCDD toxicity equivalent quotients (TEQs)) | 1746-01-6  | 3.0E-08                                             | m                 | 3.0E-06                                             | m                 | —                                                                  | —                 | —                                                                      | —                 | 3.0E-08                                             | m                 | 3.0E-06                                             | m                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Diphenyl ether                                                | 101-84-8   | 1.5E-01                                             | n                 | 1.5E+01                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 4.5E-01                                             | n                 | 4.5E+01                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Diphenylamine                                                 | 122-39-4   | 6.1E-01                                             | n                 | 6.1E+01                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.8E+00                                             | n                 | 1.8E+02                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Diphenylhydrazine, 1,2-                                       | 122-66-7   | 1.1E-03                                             | c                 | 1.1E-01                                             | c                 | 3.8E+03                                                            | c >S              | 4.9E+02                                                                | c                 | 2.6E-03                                             | c                 | 2.6E-01                                             | c                 | 6.4E+03                                                                 | c >S              | 8.3E+02                                                                | c                 | —                                       |
| Dipropylene glycol                                            | 110-98-5   | 2.9E+00                                             | n                 | 2.9E+02                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 8.8E+00                                             | n                 | 8.8E+02                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Diquat                                                        | 85-00-7    | 2.0E-02                                             | m                 | 2.0E+00                                             | m                 | —                                                                  | —                 | —                                                                      | —                 | 2.0E-02                                             | m                 | 2.0E+00                                             | m                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)   | 142-73-4   | 2.4E-01                                             | n                 | 2.4E+01                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 7.3E-01                                             | n                 | 7.3E+01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Disulfoton                                                    | 298-04-4   | 9.8E-04                                             | n                 | 9.8E-02                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 2.9E-03                                             | n                 | 2.9E-01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Diuron                                                        | 330-54-1   | 4.9E-02                                             | n                 | 4.9E+00                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.5E-01                                             | n                 | 1.5E+01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Dodecylphenol, 4-                                             | 104-43-8   | 1.2E+00                                             | n >S              | 1.2E+02                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 3.7E+00                                             | n >S              | 3.7E+02                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Endosulfan                                                    | 115-29-7   | 1.5E-01                                             | n                 | 1.5E+01                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 4.4E-01                                             | n                 | 4.4E+01                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Endosulfan I                                                  | 959-98-8   | 4.9E-02                                             | n                 | 4.9E+00                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 1.5E-01                                             | n                 | 1.5E+01                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Endosulfan II                                                 | 33213-65-9 | 1.5E-01                                             | n                 | 1.5E+01                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 4.4E-01                                             | n                 | 4.4E+01                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Endosulfan sulfate                                            | 1031-07-8  | 1.5E-01                                             | n >S              | 1.5E+01                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 4.4E-01                                             | n >S              | 4.4E+01                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Endothall                                                     | 145-73-3   | 1.0E-01                                             | m                 | 1.0E+01                                             | m                 | —                                                                  | —                 | —                                                                      | —                 | 1.0E-01                                             | m                 | 1.0E+01                                             | m                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Endrin                                                        | 72-20-8    | 2.0E-03                                             | m                 | 2.0E-01                                             | m                 | —                                                                  | —                 | —                                                                      | —                 | 2.0E-03                                             | m                 | 2.0E-01                                             | m                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Endrin aldehyde                                               | 7421-93-4  | 7.3E-03                                             | n                 | 7.3E-01                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 2.2E-02                                             | n >S              | 2.2E+00                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Endrin ketone                                                 | 53494-70-5 | 7.3E-03                                             | n                 | 7.3E-01                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 2.2E-02                                             | n                 | 2.2E+00                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Epiclorohydrin                                                | 106-89-8   | 9.2E-02                                             | c                 | 9.2E+00                                             | c                 | 7.1E+02                                                            | n                 | 9.1E+01                                                                | n                 | 2.1E-01                                             | c                 | 2.1E+01                                             | c                 | 9.9E+02                                                                 | n                 | 1.3E+02                                                                | n                 | —                                       |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate)         | 2104-64-5  | 2.4E-04                                             | n                 | 2.4E-02                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 7.3E-04                                             | n                 | 7.3E-02                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Esfenvalerate                                                 | 66230-04-4 | 4.9E-02                                             | n >S              | 4.9E+00                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 1.5E-01                                             | n >S              | 1.5E+01                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethalfuralin (sonolan)                                        | 55283-68-6 | 1.0E-02                                             | c                 | 1.0E+00                                             | c                 | —                                                                  | —                 | —                                                                      | —                 | 2.3E-02                                             | c                 | 2.3E+00                                             | c                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethanol                                                       | 64-17-5    | 8.1E+02                                             | n                 | 8.1E+04                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 2.4E-03                                             | n                 | 2.4E+05                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethanol, 2-amino-                                             | 141-43-5   | 4.2E-02                                             | n                 | 4.2E+00                                             | n                 | 4.2E+05                                                            | n                 | 5.5E+04                                                                | n                 | 1.2E-01                                             | n                 | 1.2E+01                                             | n                 | 5.9E+05                                                                 | n                 | 7.7E+04                                                                | n                 | —                                       |
| Ethanol, 2-(2-aminoethoxy)-                                   | 929-06-6   | 1.2E-02                                             | n                 | 1.2E+00                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 3.7E-02                                             | n                 | 3.7E+00                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethanol, 2-(2-ethoxyethoxy)-                                  | 111-90-0   | 4.9E+01                                             | n                 | 4.9E+03                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.5E+02                                             | n                 | 1.5E+04                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethanol, 2-(methylamino)-                                     | 109-83-1   | 3.9E-01                                             | n                 | 3.9E+01                                             | n                 | 1.0E+06                                                            | n                 | 1.3E+05                                                                | n                 | 1.2E+00                                             | n                 | 1.2E+02                                             | n                 | 1.0E+06                                                                 | n >S              | 1.8E+05                                                                | n                 | —                                       |
| Ethion                                                        | 563-12-2   | 1.2E-02                                             | n                 | 1.2E+00                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 3.7E-02                                             | n                 | 3.7E+00                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethoprop                                                      | 13194-48-4 | 2.4E-03                                             | n                 | 2.4E-01                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 7.3E-03                                             | n                 | 7.3E-01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethoxy ethanol, 2-                                            | 110-80-5   | 2.2E+00                                             | n                 | 2.2E+02                                             | n >S              | 1.0E+06                                                            | n >S              | 4.3E+05                                                                | n >S              | 6.6E+00                                             | n                 | 6.6E+02                                             | n >S              | 1.0E+06                                                                 | n >S              | 6.1E+05                                                                | n >S              | —                                       |
| Ethyl acetate                                                 | 141-78-6   | 2.2E+01                                             | n                 | 2.2E+03                                             | n                 | 5.3E+04                                                            | n                 | 6.9E+03                                                                | n                 | 6.6E+01                                             | n                 | 6.6E+03                                             | n                 | 7.4E+04                                                                 | n                 | 9.6E+03                                                                | n                 | —                                       |
| Ethyl acrylate                                                | 140-88-5   | 1.9E-02                                             | c                 | 1.9E+00                                             | c                 | 1.1E+03                                                            | n                 | 1.4E+02                                                                | n                 | 4.3E-02                                             | c                 | 4.3E+00                                             | c                 | 1.5E+03                                                                 | n                 | 2.0E+02                                                                | n                 | —                                       |
| Ethyl benzene                                                 | 100-41-4   | 7.0E-01                                             | m                 | 7.0E+01                                             | m                 | 3.0E+04                                                            | n >S              | 3.8E+03                                                                | n >S              | 7.0E-01                                             | m                 | 7.0E+01                                             | m                 | 4.2E+04                                                                 | n >S              | 5.4E+03                                                                | n >S              | —                                       |
| Ethyl dipropylthiocarbamate, S-                               | 759-94-4   | 6.1E-01                                             | n                 | 6.1E+01                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.8E+00                                             | n                 | 1.8E+02                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethyl ether                                                   | 60-29-7    | 4.9E+00                                             | n                 | 4.9E+02                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.5E+01                                             | n                 | 1.5E+03                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethyl methacrylate                                            | 97-63-2    | 2.2E+00                                             | n                 | 2.2E+02                                             | n                 | 5.7E+04                                                            | n >S              | 7.4E+03                                                                | n                 | 6.6E+00                                             | n                 | 6.6E+02                                             | n                 | 8.0E+04                                                                 | n >S              | 1.0E+04                                                                | n                 | —                                       |
| Ethyl methanesulfonate                                        | 62-50-0    | 9.2E-03                                             | c                 | 9.2E-01                                             | c                 | 1.9E+04                                                            | c                 | 2.4E+03                                                                | c                 | 2.1E-02                                             | c                 | 2.1E+00                                             | c                 | 3.1E+04                                                                 | c                 | 4.0E+03                                                                | c                 | —                                       |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)              | 637-92-3   | 2.4E-02                                             | n                 | 2.4E+00                                             | n                 | 1.1E+04                                                            | n >S              | 1.4E+03                                                                | n                 | 7.3E-02                                             | n                 | 7.3E+00                                             | n                 | 1.5E+04                                                                 | n >S              | 2.0E+03                                                                | n                 | —                                       |
| Ethyl-1-hexanol, 2-                                           | 104-76-7   | 3.7E+00                                             | n                 | 3.7E+02                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.1E+01                                             | n                 | 1.1E+03                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethyl-2-hexenal, 2-                                           | 645-62-5   | 3.7E+00                                             | n                 | 3.7E+02                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.1E+01                                             | n                 | 1.1E+03                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethyl-2-methyl benzene, 1-                                    | 611-14-3   | 1.2E+00                                             | n                 | 1.2E+02                                             | n >S              | 9.2E+03                                                            | n >S              | 1.2E+03                                                                | n >S              | 3.7E+00                                             | n                 | 3.7E+02                                             | n >S              | 1.3E+04                                                                 | n >S              | 1.7E+03                                                                | n >S              | —                                       |
| Ethyl-4-methyl benzene, 1-                                    | 622-96-8   | 1.2E+00                                             | n                 | 1.2E+02                                             | n >S              | 7.0E+03                                                            | n >S              | 9.0E+02                                                                | n >S              | 3.7E+00                                             | n                 | 3.7E+02                                             | n >S              | 9.7E+03                                                                 | n >S              | 1.3E+03                                                                | n >S              | —                                       |
| Ethylene*                                                     | 74-85-1    | —                                                   | —                 | —                                                   | —                 | —                                                                  | —                 | —                                                                      | —                 | —                                                   | —                 | —                                                   | —                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethylene dibromide (dibromoethane, 1,2- )                     | 106-93-4   | 5.0E-05                                             | m                 | 5.0E-03                                             | m                 | 7.6E+01                                                            | c                 | 9.8E+00                                                                | c                 | 5.0E-05                                             | m                 | 5.0E-03                                             | m                 | 1.3E+02                                                                 | c                 | 1.7E+01                                                                | c                 | —                                       |
| Ethylene glycol                                               | 107-21-1   | 4.9E+01                                             | n                 | 4.9E+03                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.5E+02                                             | n                 | 1.5E+04                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethylene oxide                                                | 75-21-8    | 8.9E-04                                             | c                 | 8.9E-02                                             | c                 | 3.0E+03                                                            | c                 | 3.9E+02                                                                | c                 | 2.0E-03                                             | c                 | 2.0E-01                                             | c                 | 5.0E+03                                                                 | c                 | 6.5E+02                                                                | c                 | —                                       |
| Ethylene thiourea                                             | 96-45-7    | 2.0E-03                                             | n                 | 2.0E-01                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 5.8E-03                                             | n                 | 5.8E-01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethylenediamine                                               | 107-15-3   | 2.2E+00                                             | n                 | 2.2E+02                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 6.6E+00                                             | n                 | 6.6E+02                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Ethylenimine                                                  | 151-56-4   | 1.4E-05                                             | c                 | 1.4E-03                                             | c                 | 1.4E+01                                                            | c                 | 1.8E+00                                                                | c                 | 3.1E-05                                             | c                 | 3.1E-03                                             | c                 | 2.3E+01                                                                 | c                 | 3.0E+00                                                                | c                 | —                                       |
| Ethylhexyl acrylate, 2-                                       | 103-11-7   | 1.9E-02                                             | c                 | 1.9E+00                                             | c                 | —                                                                  | —                 | —                                                                      | —                 | 4.3E-02                                             | c                 | 4.3E+00                                             | c                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Famphur                                                       | 52-85-7    | 7.3E-04                                             | n                 | 7.3E-02                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 2.2E-03                                             | n                 | 2.2E-01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Fensulfothion                                                 | 115-90-2   | 2.4E-02                                             | n                 | 2.4E+00                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 7.3E-02                                             | n                 | 7.3E+00                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Fenthion                                                      | 55-38-9    | 1.7E-03                                             | n                 | 1.7E-01                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 5.1E-03                                             | n                 | 5.1E-01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Fenuron                                                       | 101-42-8   | 1.7E+00                                             | n                 | 1.7E+02                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 5.1E+00                                             | n                 | 5.1E+02                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Fluoranthene                                                  | 206-44-0   | 9.8E-01                                             | n >S              | 9.8E+01                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 2.9E+00                                             | n >S              | 2.9E+02                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Fluorene                                                      | 86-73-7    | 9.8E-01                                             | n                 | 9.8E+01                                             | n >S              | —                                                                  | —                 | —                                                                      | —                 | 2.9E+00                                             | n >S              | 2.9E+02                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Fluorine (soluble fluoride)                                   | 7782-41-4  | 4.0E+00                                             | m                 | 4.0E+02                                             | m                 | —                                                                  | —                 | —                                                                      | —                 | 4.0E+00                                             | m                 | 4.0E+02                                             | m                 | —                                                                       | —                 | —                                                                      | —                 | 2.0E+00                                 |
| Fluorochloridone                                              | 61213-25-0 | 1.8E-01                                             | n                 | 1.8E+01                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 5.5E-01                                             | n                 | 5.5E+01                                             | n                 | —                                                                       | —                 | —                                                                      | —                 | —                                       |
| Fonofos                                                       | 944-22-9   | 4.9E-02                                             | n                 | 4.9E+00                                             | n                 | —                                                                  | —                 | —                                                                      | —                 | 1.5E-01                                             | n                 | 1.5E+01                                             | n >S              | —                                                                       | —                 | —                                                                      | —                 | —                                       |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                               | CAS        | Residential                           |                   |                                          |                   |                                                     |                   |                                                    |                   | Commercial/Industrial                 |                   |                                          |                   |                                                     |                   |                                                    |                   | Secondary MCL <sup>5</sup> (mg/L) |
|---------------------------------------------------|------------|---------------------------------------|-------------------|------------------------------------------|-------------------|-----------------------------------------------------|-------------------|----------------------------------------------------|-------------------|---------------------------------------|-------------------|------------------------------------------|-------------------|-----------------------------------------------------|-------------------|----------------------------------------------------|-------------------|-----------------------------------|
|                                                   |            | GW <sub>Ing</sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> | GW <sub>Ing</sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> |                                   |
| Formaldehyde                                      | 50-00-0    | 4.9E+00                               | n                 | 4.9E+02                                  | n                 | 8.6E+04                                             | n                 | 1.1E+04                                            | n                 | 1.5E+01                               | n                 | 1.5E+03                                  | n                 | 1.2E+05                                             | n                 | 1.6E+04                                            | n                 | —                                 |
| Formic acid                                       | 64-18-6    | 2.2E+01                               | n                 | 2.2E+03                                  | n                 | 1.7E+04                                             | n                 | 2.3E+03                                            | n                 | 6.6E+01                               | n                 | 6.6E+03                                  | n                 | 2.4E+04                                             | n                 | 3.2E+03                                            | n                 | —                                 |
| Furan                                             | 110-00-9   | 2.4E-02                               | n                 | 2.4E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Furfural                                          | 98-01-1    | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Glycidylaldehyde                                  | 765-34-4   | 9.8E-03                               | n                 | 9.8E-01                                  | n                 | 1.4E+04                                             | n                 | 1.9E+03                                            | n                 | 2.9E-02                               | n                 | 2.9E+00                                  | n                 | 2.0E+04                                             | n                 | 2.6E+03                                            | n                 | —                                 |
| Glyphosate                                        | 1071-83-6  | 7.0E-01                               | m                 | 7.0E+01                                  | m                 | —                                                   | —                 | —                                                  | —                 | 7.0E-01                               | m                 | 7.0E+01                                  | m                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Heptachlor                                        | 76-44-8    | 4.0E-04                               | m                 | 4.0E-02                                  | m                 | 6.3E+00                                             | c > S             | 8.1E-01                                            | c > S             | 4.0E-04                               | m                 | 4.0E-02                                  | m                 | 1.1E+01                                             | c > S             | 1.4E+00                                            | c > S             | —                                 |
| Heptachlor epoxide                                | 1024-57-3  | 2.0E-04                               | m                 | 2.0E-02                                  | m                 | 1.2E+02                                             | c > S             | 1.5E+01                                            | c > S             | 2.0E-04                               | m                 | 2.0E-02                                  | m                 | 2.0E+02                                             | c > S             | 2.6E+01                                            | c > S             | —                                 |
| Heptane, n-                                       | 142-82-5   | 1.5E+00                               | n                 | 1.5E+02                                  | n > S             | 8.7E+02                                             | n > S             | 1.1E+02                                            | n > S             | 4.4E+00                               | n > S             | 4.4E+02                                  | n > S             | 1.2E+03                                             | n > S             | 1.6E+02                                            | n > S             | —                                 |
| Heptanoic acid, n-                                | 111-14-8   | 1.2E+01                               | n                 | 1.2E+03                                  | n                 | 1.7E+04                                             | n > S             | 2.1E+03                                            | n > S             | 3.7E+01                               | n                 | 3.7E+03                                  | n > S             | 2.3E+04                                             | n > S             | 3.0E+03                                            | n > S             | —                                 |
| Hexachlorobenzene                                 | 118-74-1   | 1.0E-03                               | m                 | 1.0E-01                                  | m > S             | 5.7E+00                                             | c > S             | 7.4E-01                                            | c > S             | 1.0E-03                               | m                 | 1.0E-01                                  | m > S             | 9.6E+00                                             | c > S             | 1.2E+00                                            | c > S             | —                                 |
| Hexachlorobutadiene                               | 87-68-3    | 1.2E-02                               | c                 | 1.2E+00                                  | c                 | 8.9E+00                                             | c > S             | 1.1E+00                                            | c                 | 2.6E-02                               | c                 | 2.6E+00                                  | c > S             | 1.5E+01                                             | c > S             | 1.9E+00                                            | c                 | —                                 |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | 1.4E-04                               | c                 | 1.4E-02                                  | c                 | 1.5E+02                                             | c > S             | 2.0E+01                                            | c > S             | 3.2E-04                               | c                 | 3.2E-02                                  | c                 | 2.6E+02                                             | c > S             | 3.3E+01                                            | c > S             | —                                 |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | 5.1E-04                               | c                 | 5.1E-02                                  | c                 | 1.1E+03                                             | c > S             | 1.5E+02                                            | c > S             | 1.1E-03                               | c                 | 1.1E-01                                  | c                 | 1.9E+03                                             | c > S             | 2.5E+02                                            | c > S             | —                                 |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | 5.1E-04                               | c                 | 5.1E-02                                  | c                 | 3.6E+02                                             | c > S             | 4.7E+01                                            | c > S             | 1.1E-03                               | c                 | 1.1E-01                                  | c                 | 6.1E+02                                             | c > S             | 7.9E+01                                            | c > S             | —                                 |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | 2.0E-04                               | m                 | 2.0E-02                                  | m                 | —                                                   | —                 | —                                                  | —                 | 2.0E-04                               | m                 | 2.0E-02                                  | m                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | 5.1E-04                               | c                 | 5.1E-02                                  | c                 | 9.9E+02                                             | c > S             | 1.3E+02                                            | c > S             | 1.1E-03                               | c                 | 1.1E-01                                  | c                 | 1.7E+03                                             | c > S             | 2.2E+02                                            | c > S             | —                                 |
| Hexachlorocyclopentadiene                         | 77-47-4    | 5.0E-02                               | m                 | 5.0E+00                                  | m > S             | 5.4E+00                                             | n > S             | 7.0E-01                                            | n                 | 5.0E-02                               | m                 | 5.0E+00                                  | m > S             | 7.6E+00                                             | n > S             | 9.8E-01                                            | n                 | —                                 |
| Hexachloroethane                                  | 67-72-1    | 1.7E-02                               | n                 | 1.7E+00                                  | n                 | 7.3E+03                                             | n > S             | 9.5E+02                                            | n > S             | 5.1E-02                               | n                 | 5.1E+00                                  | n                 | 1.0E+04                                             | n > S             | 1.3E+03                                            | n > S             | —                                 |
| Hexachlorophene                                   | 70-30-4    | 7.3E-03                               | n > S             | 7.3E-01                                  | n > S             | —                                                   | —                 | —                                                  | —                 | 2.2E-02                               | n > S             | 2.2E+00                                  | n > S             | —                                                   | —                 | —                                                  | —                 | —                                 |
| Hexachloropropylene                               | 1888-71-7  | 1.7E-02                               | n                 | 1.7E+00                                  | n                 | 2.1E+03                                             | n > S             | 2.8E+02                                            | n > S             | 5.1E-02                               | n                 | 5.1E+00                                  | n                 | 3.0E+03                                             | n > S             | 3.9E+02                                            | n > S             | —                                 |
| Hexanal, 2-ethyl-                                 | 123-05-7   | 3.7E+00                               | n                 | 3.7E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 1.1E+01                               | n                 | 1.1E+03                                  | n > S             | —                                                   | —                 | —                                                  | —                 | —                                 |
| Hexane, n-                                        | 110-54-3   | 1.5E+00                               | n                 | 1.5E+02                                  | n > S             | 3.8E+01                                             | n > S             | 4.9E+00                                            | n                 | 4.4E+00                               | n                 | 4.4E+02                                  | n > S             | 5.3E+01                                             | n > S             | 6.9E+00                                            | n                 | —                                 |
| Hexanediamine, 1,6-                               | 124-09-4   | 1.2E-01                               | n                 | 1.2E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | 3.7E-01                               | n                 | 3.7E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Hexaneditrile                                     | 111-69-3   | 3.4E-02                               | n                 | 3.4E+00                                  | n                 | 1.6E+05                                             | n                 | 2.1E+04                                            | n                 | 1.0E-01                               | n                 | 1.0E+01                                  | n                 | 2.2E+05                                             | n                 | 2.9E+04                                            | n                 | —                                 |
| Hexanediol, 1,6-                                  | 629-11-8   | 1.2E+02                               | n                 | 1.2E+04                                  | n                 | 1.0E+06                                             | n > S             | 1.0E+06                                            | n > S             | 3.7E+02                               | n                 | 3.7E+04                                  | n > S             | 1.0E+06                                             | n > S             | 1.0E+06                                            | n > S             | —                                 |
| Hexanoic acid                                     | 142-62-1   | 1.6E+00                               | n                 | 1.6E+02                                  | n                 | 2.1E+04                                             | n > S             | 2.7E+03                                            | n                 | 4.7E+00                               | n                 | 4.7E+02                                  | n                 | 3.0E+04                                             | n > S             | 3.8E+03                                            | n                 | —                                 |
| Hexanone, 2-                                      | 591-78-6   | 1.2E+00                               | n                 | 1.2E+02                                  | n                 | 1.2E+04                                             | n                 | 1.5E+03                                            | n                 | 3.7E+00                               | n                 | 3.7E+02                                  | n                 | 1.6E+04                                             | n                 | 2.1E+03                                            | n                 | —                                 |
| Hexazinone                                        | 51235-04-2 | 8.1E-01                               | n                 | 8.1E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Hexene, 1-                                        | 592-41-6   | 8.1E+00                               | n                 | 8.1E+02                                  | n > S             | 3.4E+01                                             | n > S             | 4.3E+00                                            | n                 | 2.4E+01                               | n                 | 2.4E+03                                  | n > S             | 4.7E+01                                             | n > S             | 6.1E+00                                            | n                 | —                                 |
| Hexene, cis-2-                                    | 7688-21-3  | 8.1E+00                               | n                 | 8.1E+02                                  | n > S             | 4.8E+01                                             | n > S             | 6.2E+00                                            | n                 | 2.4E+01                               | n                 | 2.4E+03                                  | n > S             | 6.7E+01                                             | n > S             | 8.7E+00                                            | n                 | —                                 |
| Hexylene glycol (2-methyl-2,4-pentanediol)        | 107-41-5   | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 2.2E+01                               | n                 | 2.2E+03                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Hydrazine                                         | 302-01-2   | 3.0E-04                               | c                 | 3.0E-02                                  | c                 | 5.1E+01                                             | c                 | 6.7E+00                                            | c                 | 6.8E-04                               | c                 | 6.8E-02                                  | c                 | 8.6E+01                                             | c                 | 1.1E+01                                            | c                 | —                                 |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)    | 1191-25-9  | 1.6E+00                               | n                 | 1.6E+02                                  | n                 | 2.9E+04                                             | n > S             | 4.2E+03                                            | n                 | 4.7E+00                               | n                 | 4.7E+02                                  | n                 | 4.0E+04                                             | n > S             | 5.9E+03                                            | n                 | —                                 |
| Hydrogen chloride (hydrochloric acid)*            | 7647-01-0  | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Hydroquinone                                      | 123-31-9   | 1.5E-02                               | c                 | 1.5E+00                                  | c                 | —                                                   | —                 | —                                                  | —                 | 3.4E-02                               | c                 | 3.4E+00                                  | c                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Indene                                            | 95-13-6    | 4.9E-01                               | n                 | 4.9E+01                                  | n                 | 2.7E+02                                             | n                 | 3.5E+01                                            | n                 | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 3.8E+02                                             | n                 | 5.0E+01                                            | n                 | —                                 |
| Indeno-1,2,3-cd-pyrene                            | 193-39-5   | 9.1E-03                               | c > S             | 9.1E-01                                  | c > S             | 1.4E+04                                             | c > S             | 1.8E+03                                            | c > S             | 2.0E-02                               | c > S             | 2.0E+00                                  | c > S             | 2.3E+04                                             | c > S             | 3.0E+03                                            | c > S             | —                                 |
| Iron*                                             | 7439-89-6  | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | 3.0E-01                           |
| Isoamyl alcohol                                   | 123-51-3   | 1.2E-01                               | n                 | 1.2E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | 3.7E-01                               | n                 | 3.7E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Isobutyl alcohol                                  | 78-83-1    | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 2.2E+01                               | n                 | 2.2E+03                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Isobutylene (2-methyl-1-propene)                  | 115-11-7   | 9.0E-02                               | n                 | 9.0E+00                                  | n                 | 6.1E+04                                             | n > S             | 7.9E+03                                            | n > S             | 2.7E-01                               | n                 | 2.7E+01                                  | n                 | 8.5E+04                                             | n > S             | 1.1E+04                                            | n > S             | —                                 |
| Isobutyric acid (2-methylpropanoic acid)          | 79-31-2    | 1.2E+01                               | n                 | 1.2E+03                                  | n                 | —                                                   | —                 | —                                                  | —                 | 3.7E-01                               | n                 | 3.7E+03                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Isodecanol                                        | 25339-17-7 | 3.9E-02                               | n                 | 3.9E+00                                  | n                 | —                                                   | —                 | —                                                  | —                 | 1.2E-01                               | n                 | 1.2E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Isodrin                                           | 465-73-6   | 5.4E-06                               | c                 | 5.4E-04                                  | c                 | 3.4E-02                                             | c > S             | 4.4E-03                                            | c                 | 1.2E-05                               | c                 | 1.2E-03                                  | c                 | 5.7E-02                                             | c > S             | 7.4E-03                                            | c                 | —                                 |
| Isopentane                                        | 78-78-4    | 1.5E+00                               | n                 | 1.5E+02                                  | n > S             | 2.5E+03                                             | n > S             | 3.2E+02                                            | n > S             | 4.4E+00                               | n                 | 4.4E+02                                  | n > S             | 3.4E+03                                             | n > S             | 4.4E+02                                            | n > S             | —                                 |
| Isophorone                                        | 78-59-1    | 9.6E-01                               | c                 | 9.6E+01                                  | c                 | —                                                   | —                 | —                                                  | —                 | 2.2E+00                               | c                 | 2.2E+02                                  | c                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Isopropyl acetate                                 | 108-21-4   | 1.7E+00                               | n                 | 1.7E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | 5.1E+00                               | n                 | 5.1E+02                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Isopropyl alcohol                                 | 67-63-0    | 4.9E+01                               | n                 | 4.9E+03                                  | n                 | 4.2E+05                                             | n > S             | 5.5E+04                                            | n                 | 1.5E+02                               | n                 | 1.5E+04                                  | n                 | 5.9E+05                                             | n > S             | 7.6E+04                                            | n                 | —                                 |
| Isosafrole                                        | 120-58-1   | 4.1E-03                               | c                 | 4.1E-01                                  | c                 | 4.3E+02                                             | c > S             | 5.5E+01                                            | c                 | 9.3E-03                               | c                 | 9.3E-01                                  | c                 | 7.2E+02                                             | c > S             | 9.3E+01                                            | c                 | —                                 |
| Kelthane (dicofol)                                | 115-32-2   | 1.5E-01                               | n                 | 1.5E+01                                  | n > S             | —                                                   | —                 | —                                                  | —                 | 4.4E-01                               | n                 | 4.4E+01                                  | n > S             | —                                                   | —                 | —                                                  | —                 | —                                 |
| Kepone (chlordecone)                              | 143-50-0   | 9.1E-05                               | c                 | 9.1E-03                                  | c                 | 2.4E+02                                             | c > S             | 3.0E+01                                            | c > S             | 2.0E-04                               | c                 | 2.0E-02                                  | c                 | 4.0E+02                                             | c > S             | 5.1E+01                                            | c > S             | —                                 |
| Lead (inorganic)                                  | 7439-92-1  | 1.5E-02                               | e > S             | 1.5E+00                                  | e > S             | —                                                   | —                 | —                                                  | —                 | 1.5E-02                               | e > S             | 1.5E+00                                  | e > S             | —                                                   | —                 | —                                                  | —                 | —                                 |
| Leptophos                                         | 21609-90-5 | 1.2E-04                               | n                 | 1.2E-02                                  | n > S             | 6.4E+01                                             | n > S             | 8.2E+00                                            | n > S             | 3.7E-04                               | n                 | 3.7E-02                                  | n > S             | 8.9E+01                                             | n > S             | 1.2E+01                                            | n > S             | —                                 |
| Limonene, d-*                                     | 5989-27-5  | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Lithium                                           | 7439-93-2  | 1.7E-01                               | n                 | 1.7E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | 5.1E-01                               | n                 | 5.1E+01                                  | n                 | —                                                   | —                 | —                                                  | —                 | —                                 |
| Magnesium*                                        | 7439-95-4  | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —                                     | —                 | —                                        | —                 | —                                                   | —                 | —                                                  | —                 | —</                               |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                            | CAS        | Residential                              |                   |                                             |                   |                                                           |                   |                                                             |                   | Commercial/Industrial                    |                   |                                             |                   |                                                              |                   |                                                             |                   | Secondary MCL <sup>5</sup><br>(mg/L) |
|------------------------------------------------|------------|------------------------------------------|-------------------|---------------------------------------------|-------------------|-----------------------------------------------------------|-------------------|-------------------------------------------------------------|-------------------|------------------------------------------|-------------------|---------------------------------------------|-------------------|--------------------------------------------------------------|-------------------|-------------------------------------------------------------|-------------------|--------------------------------------|
|                                                |            | GW <sub>Inh</sub> <sup>2</sup><br>(mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup><br>(mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub><br>0.5 acre source<br>area (mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub><br>30 acre<br>source area<br>(mg/L) | note <sup>4</sup> | GW <sub>Inh</sub> <sup>2</sup><br>(mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup><br>(mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub><br>0.5 acre<br>source area<br>(mg/L) | note <sup>4</sup> | Air GW <sub>Inh-V</sub><br>30 acre<br>source area<br>(mg/L) | note <sup>4</sup> |                                      |
| Methacrylonitrile                              | 126-98-7   | 1.2E+00                                  | n                 | 1.2E+02                                     | n                 | 1.1E+04                                                   | n                 | 1.4E+03                                                     | n                 | 3.7E+00                                  | n                 | 3.7E+02                                     | n                 | 1.6E+04                                                      | n                 | 2.0E+03                                                     | n                 | —                                    |
| Methanol                                       | 67-56-1    | 4.9E+01                                  | n                 | 4.9E+03                                     | n                 | 1.0E+06                                                   | n >S              | 1.0E+06                                                     | n >S              | 1.5E+02                                  | n                 | 1.5E+04                                     | n                 | 1.0E+06                                                      | n >S              | 1.0E+06                                                     | n >S              | —                                    |
| Methapyrilene                                  | 91-80-5    | 1.9E-04                                  | c                 | 1.9E-02                                     | c                 | —                                                         | —                 | —                                                           | —                 | 4.3E-04                                  | c                 | 4.3E-02                                     | c                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methomyl                                       | 16752-77-5 | 6.1E-01                                  | n                 | 6.1E+01                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.8E+00                                  | n                 | 1.8E+02                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methoxychlor                                   | 72-43-5    | 4.0E-02                                  | m                 | 4.0E+00                                     | m >S              | —                                                         | —                 | —                                                           | —                 | 4.0E-02                                  | m                 | 4.0E+00                                     | m >S              | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methoxyethanol, 2-                             | 109-86-4   | 6.6E-01                                  | n                 | 6.6E+01                                     | n >S              | 8.1E+01                                                   | n >S              | 1.1E+01                                                     | n                 | 2.0E+00                                  | n                 | 2.0E+02                                     | n >S              | 1.1E+02                                                      | n >S              | 1.5E+01                                                     | n                 | —                                    |
| Methyl acetate (acetic acid, methyl ester)     | 79-20-9    | 2.4E+01                                  | n                 | 2.4E+03                                     | n                 | —                                                         | —                 | —                                                           | —                 | 7.3E+01                                  | n                 | 7.3E+03                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methyl acrylate                                | 96-33-3    | 4.9E-02                                  | n                 | 4.9E+00                                     | n                 | 2.7E+03                                                   | n                 | 3.4E+02                                                     | n                 | 1.5E-01                                  | n                 | 1.5E+01                                     | n                 | 3.7E+03                                                      | n                 | 4.8E+02                                                     | n                 | —                                    |
| Methyl amyl ketone (2-heptanone)               | 110-43-0   | 1.2E+00                                  | n                 | 1.2E+02                                     | n                 | 1.0E+06                                                   | n >S              | 1.4E+05                                                     | n >S              | 3.7E+00                                  | n                 | 3.7E+02                                     | n                 | 1.0E+06                                                      | n >S              | 2.0E+05                                                     | n >S              | —                                    |
| Methyl chrysene, 1-                            | 3351-28-8  | 1.3E-01                                  | c >S              | 1.3E+01                                     | c >S              | 8.0E+05                                                   | c >S              | 1.0E+05                                                     | c >S              | 2.8E-01                                  | c >S              | 2.8E+01                                     | c >S              | 1.0E+06                                                      | c >S              | 1.7E+05                                                     | c >S              | —                                    |
| Methyl chrysene, 2-                            | 3351-32-4  | 1.3E-01                                  | c >S              | 1.3E+01                                     | c >S              | 8.0E+05                                                   | c >S              | 1.0E+05                                                     | c >S              | 2.8E-01                                  | c >S              | 2.8E+01                                     | c >S              | 1.0E+06                                                      | c >S              | 1.7E+05                                                     | c >S              | —                                    |
| Methyl chrysene, 6-                            | 1705-85-7  | 1.3E-02                                  | c >S              | 1.3E+00                                     | c >S              | 8.0E+04                                                   | c >S              | 1.0E+04                                                     | c >S              | 2.8E-02                                  | c >S              | 2.8E+00                                     | c >S              | 1.3E+05                                                      | c >S              | 1.7E+04                                                     | c >S              | —                                    |
| Methyl cyclohexane                             | 108-87-2   | 1.2E+02                                  | n >S              | 1.2E+04                                     | n >S              | 1.4E+03                                                   | n >S              | 1.8E+02                                                     | n >S              | 3.7E+02                                  | n >S              | 3.7E+04                                     | n >S              | 2.0E+03                                                      | n >S              | 2.6E+02                                                     | n >S              | —                                    |
| Methyl ethyl ketone (2-butanone)               | 78-93-3    | 1.5E+01                                  | n                 | 1.5E+03                                     | n                 | 1.0E+06                                                   | n >S              | 6.2E+05                                                     | n >S              | 4.4E+01                                  | n                 | 4.4E+03                                     | n                 | 1.0E+06                                                      | n >S              | 8.7E+05                                                     | n >S              | —                                    |
| Methyl iodide (iodomethane)                    | 74-88-4    | 3.4E-02                                  | n                 | 3.4E+00                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.0E-01                                  | n                 | 1.0E+01                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methyl isobutyl ketone (4-methyl-2-pentanone)  | 108-10-1   | 2.0E+00                                  | n                 | 2.0E+02                                     | n                 | 6.7E+05                                                   | n >S              | 8.7E+04                                                     | n >S              | 5.8E+00                                  | n                 | 5.8E+02                                     | n                 | 9.4E+05                                                      | n >S              | 1.2E+05                                                     | n >S              | —                                    |
| Methyl mercury                                 | 22967-92-6 | 2.4E-03                                  | n                 | 2.4E-01                                     | n                 | —                                                         | —                 | —                                                           | —                 | 7.3E-03                                  | n                 | 7.3E-01                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methyl methacrylate                            | 80-62-6    | 3.4E+01                                  | n                 | 3.4E+03                                     | n                 | 7.9E+04                                                   | n >S              | 1.0E+04                                                     | n                 | 1.0E-02                                  | n                 | 1.0E+04                                     | n                 | 1.1E+05                                                      | n >S              | 1.4E+04                                                     | n                 | —                                    |
| Methyl methanesulfonate                        | 66-27-3    | 9.2E-03                                  | c                 | 9.2E-01                                     | c                 | 1.7E+04                                                   | c                 | 2.2E+03                                                     | c                 | 2.1E-02                                  | c                 | 2.1E+00                                     | c                 | 2.8E+04                                                      | c                 | 3.7E+03                                                     | c                 | —                                    |
| Methyl parathion                               | 298-00-0   | 6.1E-03                                  | n                 | 6.1E-01                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.8E-02                                  | n                 | 1.8E+00                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methyl-1-butene, 2-                            | 563-46-2   | 1.5E+00                                  | n                 | 1.5E+02                                     | n >S              | 7.8E+03                                                   | n >S              | 1.0E+03                                                     | n >S              | 4.4E+00                                  | n                 | 4.4E+02                                     | n >S              | 1.1E+04                                                      | n >S              | 1.4E+03                                                     | n >S              | —                                    |
| Methyl-1-propanal, 2- (isobutyraldehyde)       | 78-84-2    | 9.8E-01                                  | n                 | 9.8E+01                                     | n                 | —                                                         | —                 | —                                                           | —                 | 2.9E+00                                  | n                 | 2.9E+02                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methyl-2-butene, 2-                            | 513-35-9   | 1.5E+00                                  | n                 | 1.5E+02                                     | n                 | 1.5E+04                                                   | n >S              | 1.9E+03                                                     | n >S              | 4.4E+00                                  | n                 | 4.4E+02                                     | n >S              | 2.1E+04                                                      | n >S              | 2.7E+03                                                     | n >S              | —                                    |
| Methyl-2-pentenal, 2-                          | 623-36-9   | 4.8E-04                                  | c                 | 4.8E-02                                     | c                 | —                                                         | —                 | —                                                           | —                 | 1.1E-03                                  | c                 | 1.1E-01                                     | c                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methylcholanthrene, 3-                         | 56-49-5    | 4.1E-05                                  | c                 | 4.1E-03                                     | c >S              | 4.1E+02                                                   | c >S              | 5.4E+01                                                     | c >S              | 9.3E-05                                  | c                 | 9.3E-03                                     | c >S              | 7.0E+02                                                      | c >S              | 9.0E+01                                                     | c >S              | —                                    |
| Methylene bromide (dibromomethane)             | 74-95-3    | 1.2E-01                                  | c                 | 1.2E+01                                     | c                 | 2.4E+02                                                   | n                 | 3.1E+01                                                     | n                 | 2.7E-01                                  | c                 | 2.7E+01                                     | c                 | 3.3E+02                                                      | n                 | 4.3E+01                                                     | n                 | —                                    |
| Methylene chloride (dichloromethane)           | 75-09-2    | 5.0E-03                                  | m                 | 5.0E-01                                     | m                 | 2.1E+04                                                   | c >S              | 2.8E+03                                                     | c                 | 5.0E-03                                  | m                 | 5.0E-01                                     | m                 | 3.6E+04                                                      | c >S              | 4.6E+03                                                     | c                 | —                                    |
| Methylene-bis (2-chloroaniline) 4,4'-          | 101-14-4   | 9.1E-03                                  | c                 | 9.1E-01                                     | c                 | 2.0E+04                                                   | c >S              | 2.6E+03                                                     | c >S              | 2.0E-02                                  | c                 | 2.0E+00                                     | c                 | 3.3E+04                                                      | c >S              | 4.3E+03                                                     | c >S              | —                                    |
| Methylmercury hydroxide                        | 1184-57-2  | 2.4E-03                                  | n                 | 2.4E-01                                     | n                 | —                                                         | —                 | —                                                           | —                 | 7.3E-03                                  | n                 | 7.3E-01                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methylnaphthalene, 1-                          | 90-12-0    | 3.1E-02                                  | c                 | 3.1E+00                                     | c                 | —                                                         | —                 | —                                                           | —                 | 7.0E-02                                  | c                 | 7.0E+00                                     | c                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methylnaphthalene, 2-                          | 91-57-6    | 9.8E-02                                  | n                 | 9.8E+00                                     | n                 | —                                                         | —                 | —                                                           | —                 | 2.9E-01                                  | n                 | 2.9E+01                                     | n >S              | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methylpyrrolidone, N-                          | 872-50-4   | 4.9E-01                                  | n                 | 4.9E+01                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.5E+00                                  | n                 | 1.5E+02                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Methylstyrene, alpha-                          | 98-93-9    | 2.0E-01                                  | n                 | 2.0E+01                                     | n                 | 6.6E+02                                                   | n >S              | 8.5E+01                                                     | n >S              | 6.1E-01                                  | n                 | 6.1E+01                                     | n                 | 9.2E+02                                                      | n >S              | 1.2E+02                                                     | n >S              | —                                    |
| Methyltetrahydrofuran, 2-                      | 96-47-9    | 1.2E-01                                  | c                 | 1.2E+01                                     | c                 | 1.8E+03                                                   | c                 | 2.3E+02                                                     | c                 | 2.7E-01                                  | c                 | 2.7E+01                                     | c                 | 3.1E+03                                                      | c                 | 3.9E+02                                                     | c                 | —                                    |
| Methyltetrahydropyran, 2-                      | 10141-72-7 | 1.2E-01                                  | c                 | 1.2E+01                                     | c                 | 2.1E+03                                                   | c                 | 2.7E+02                                                     | c                 | 2.7E-01                                  | c                 | 2.7E+01                                     | c                 | 3.6E+03                                                      | c                 | 4.6E+02                                                     | c                 | —                                    |
| Metolachlor                                    | 51218-45-2 | 3.7E+00                                  | n                 | 3.7E+02                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.1E+01                                  | n                 | 1.1E+03                                     | n >S              | —                                                            | —                 | —                                                           | —                 | —                                    |
| Metribuzin                                     | 21087-64-9 | 6.1E-01                                  | n                 | 6.1E+01                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.8E+00                                  | n                 | 1.8E+02                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Mirex                                          | 2385-85-5  | 4.9E-03                                  | n >S              | 4.9E-01                                     | n >S              | —                                                         | —                 | —                                                           | —                 | 1.5E-02                                  | n >S              | 1.5E+00                                     | n >S              | —                                                            | —                 | —                                                           | —                 | —                                    |
| Molinate                                       | 2212-67-1  | 4.9E-02                                  | n                 | 4.9E+00                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.5E-01                                  | n                 | 1.5E+01                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Molybdenum                                     | 7439-98-7  | 1.2E-01                                  | n >S              | 1.2E+01                                     | n >S              | —                                                         | —                 | —                                                           | —                 | 3.7E-01                                  | n >S              | 3.7E+01                                     | n >S              | —                                                            | —                 | —                                                           | —                 | —                                    |
| Monocrotophos                                  | 2157-98-4  | 1.5E-02                                  | n                 | 1.5E+00                                     | n                 | —                                                         | —                 | —                                                           | —                 | 4.4E-02                                  | n                 | 4.4E+00                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Morpholine                                     | 110-91-8   | 1.2E+04                                  | n                 | 1.0E+06                                     | n                 | —                                                         | —                 | —                                                           | —                 | 3.7E+04                                  | n                 | 1.0E+06                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Morpholine, N-butyl-                           | 1005-67-0  | 5.6E-02                                  | n                 | 5.6E+00                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.7E-01                                  | n                 | 1.7E+01                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| MTBE (methyl tert-butyl ether) <sup>5, 8</sup> | 1634-04-4  | 2.4E-01                                  | n                 | 2.4E+01                                     | n                 | 4.0E+03                                                   | c                 | 5.2E+02                                                     | c                 | 7.3E-01                                  | n                 | 7.3E+01                                     | n                 | 6.8E+03                                                      | c                 | 8.8E+02                                                     | c                 | 1.5E-02                              |
| Naled                                          | 300-76-5   | 4.9E-02                                  | n                 | 4.9E+00                                     | n >S              | —                                                         | —                 | —                                                           | —                 | 1.5E-01                                  | n                 | 1.5E+01                                     | n >S              | —                                                            | —                 | —                                                           | —                 | —                                    |
| Naphthalene                                    | 91-20-3    | 4.9E-01                                  | n                 | 4.9E+01                                     | n >S              | 3.2E+02                                                   | n >S              | 4.1E+01                                                     | n >S              | 1.5E+00                                  | n                 | 1.5E+02                                     | n >S              | 4.4E+02                                                      | n >S              | 5.7E+01                                                     | n >S              | —                                    |
| Naphthoquinone, 1,4-                           | 130-15-4   | 1.7E-01                                  | n                 | 1.7E+01                                     | n                 | —                                                         | —                 | —                                                           | —                 | 5.1E-01                                  | n                 | 5.1E+01                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Naphthylamine, 1-                              | 134-32-7   | 4.9E-01                                  | n                 | 4.9E+01                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.5E+00                                  | n                 | 1.5E+02                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Naphthylamine, 2-                              | 91-59-8    | 5.1E-04                                  | c                 | 5.1E-02                                     | c                 | —                                                         | —                 | —                                                           | —                 | 1.1E-03                                  | c                 | 1.1E-01                                     | c                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Napropamide                                    | 15299-99-7 | 2.4E+00                                  | n                 | 2.4E+02                                     | n >S              | —                                                         | —                 | —                                                           | —                 | 7.3E+00                                  | n                 | 7.3E+02                                     | n >S              | —                                                            | —                 | —                                                           | —                 | —                                    |
| Neopentyl glycol                               | 126-30-7   | 7.3E+00                                  | n                 | 7.3E+02                                     | n                 | —                                                         | —                 | —                                                           | —                 | 2.2E+01                                  | n                 | 2.2E+03                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Nickel and compounds                           | 7440-02-0  | 4.9E-01                                  | n >S              | 4.9E+01                                     | n >S              | —                                                         | —                 | —                                                           | —                 | 1.5E+00                                  | n >S              | 1.5E+02                                     | n >S              | —                                                            | —                 | —                                                           | —                 | —                                    |
| Nitrate-N <sup>9</sup>                         | 14797-55-8 | 1.0E+01                                  | m                 | 1.0E+03                                     | m                 | —                                                         | —                 | —                                                           | —                 | 1.0E+01                                  | m                 | 1.0E+03                                     | m                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Nitrite-N <sup>9</sup>                         | 14797-65-0 | 1.0E+00                                  | m                 | 1.0E+02                                     | m                 | —                                                         | —                 | —                                                           | —                 | 1.0E+00                                  | m                 | 1.0E+02                                     | m                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Nitroaniline, 2-                               | 88-74-4    | 7.3E-03                                  | n                 | 7.3E-01                                     | n                 | 4.0E+03                                                   | n >S              | 5.2E+02                                                     | n                 | 2.2E-02                                  | n                 | 2.2E+00                                     | n                 | 5.6E+03                                                      | n >S              | 7.2E+02                                                     | n                 | —                                    |
| Nitroaniline, 3-                               | 99-09-2    | 7.3E-03                                  | n                 | 7.3E-01                                     | n                 | 4.7E+03                                                   | n >S              | 6.1E+02                                                     | n >S              | 2.2E-02                                  | n                 | 2.2E+00                                     | n                 | 6.6E+03                                                      | n >S              | 8.6E+02                                                     | n >S              | —                                    |
| Nitroaniline, 4-                               | 100-01-6   | 4.6E-02                                  | c                 | 4.6E+00                                     | c                 | 1.4E+05                                                   | n >S              | 1.9E+04                                                     | n >S              | 1.0E-01                                  | c                 | 1.0E+01                                     | c                 | 2.0E+05                                                      | n >S              | 2.6E+04                                                     | n >S              | —                                    |
| Nitrobenzene                                   | 98-95-3    | 4.9E-02                                  | n                 | 4.9E+00                                     | n                 | 7.2E+02                                                   | c                 | 9.3E+01                                                     | c                 | 1.5E-01                                  | n                 | 1.5E+01                                     | n                 | 1.2E+03                                                      | c                 | 1.6E+02                                                     | c                 | —                                    |
| Nitroglycerin                                  | 55-63-0    | 2.4E-03                                  | n                 | 2.4E-01                                     | n                 | —                                                         | —                 | —                                                           | —                 | 7.3E-03                                  | n                 | 7.3E-01                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Nitrophenol, 2-                                | 88-75-5    | 4.9E-02                                  | n                 | 4.9E+00                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.5E-01                                  | n                 | 1.5E+01                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Nitrophenol, 3-                                | 554-84-7   | 4.9E-02                                  | n                 | 4.9E+00                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.5E-01                                  | n                 | 1.5E+01                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Nitrophenol, 4-                                | 100-02-7   | 4.9E-02                                  | n                 | 4.9E+00                                     | n                 | —                                                         | —                 | —                                                           | —                 | 1.5E-01                                  | n                 | 1.5E+01                                     | n                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Nitropropane, 2-                               | 79-46-9    | 3.4E-03                                  | n                 | 3.4E-01                                     | n                 | 8.1E+00                                                   | c                 | 1.0E+00                                                     | c                 | 1.0E-02                                  | n                 | 1.0E+00                                     | n                 | 1.4E+01                                                      | c                 | 1.8E+00                                                     | c                 | —                                    |
| Nitroquinoline-N-oxide, 4-                     | 56-57-5    | 9.7E-05                                  | c                 | 9.7E-03                                     | c                 | 1.1E+04                                                   | c                 | 1.1E+04                                                     | c                 | 2.2E-04                                  | c                 | 2.2E-02                                     | c                 | 1.9E+04                                                      | c                 | 1.8E+04                                                     | c                 | —                                    |
| Nitrosodiethanolamine                          | 1116-54-7  | 3.3E-04                                  | c                 | 3.3E-02                                     | c                 | —                                                         | —                 | —                                                           | —                 | 7.3E-04                                  | c                 | 7.3E-02                                     | c                 | —                                                            | —                 | —                                                           | —                 | —                                    |
| Nitrosodiethylamine, n-                        | 55-18-5    | 6.1E-06                                  | c                 | 6.1E-04                                     | c                 | 7.4E+00                                                   | c                 | 9.5E-01                                                     | c                 | 1.4E-05                                  | c                 | 1.4E-03                                     | c                 | 1.2E+01                                                      | c                 | 1.6E+00                                                     | c                 | —                                    |
| Nitrosodimethylamine, n-                       | 62-75-9    | 1.8E-05                                  | c                 | 1.8E-03                                     | c                 | 2.0E+01                                                   | c                 | 2.6E+00                                                     | c                 | 4.0E-05                                  | c                 | 4.0E-03                                     | c                 | 3.4E+01                                                      | c                 | 4.4E+00                                                     | c                 | —                                    |
| Nitrosodi-n-butylamine, n-                     | 924-16-3   | 1.7E-04                                  | c                 | 1.7E-02                                     | c                 | 4.7E+00                                                   | c                 | 6.1E-01                                                     | c                 | 3.8E-04                                  | c                 | 3.8E-02                                     | c                 | 7.9E+00                                                      | c                 | 1.0E+00                                                     | c                 | —                                    |
| Nitrosodi-n-propylamine, n-                    | 621-64-7   | 1.3E-04                                  | c                 | 1.3E-02                                     | c                 | —                                                         | —                 | —                                                           | —                 | 2.9E-04                                  | c                 | 2.9E-02                                     | c                 | —                                                            | —                 | —                                                           | —                 | —                                    |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                             | CAS        | Residential                           |                   |                                          |                   |                                                    |                   |                                                   |                   | Commercial/Industrial                 |                   |                                          |                   |                                                    |                   |                                                   |                   | Secondary MCL <sup>5</sup> (mg/L) |
|---------------------------------------------------------------------------------|------------|---------------------------------------|-------------------|------------------------------------------|-------------------|----------------------------------------------------|-------------------|---------------------------------------------------|-------------------|---------------------------------------|-------------------|------------------------------------------|-------------------|----------------------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------|
|                                                                                 |            | GW <sub>Ing</sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | AirGW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | AirGW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> | GW <sub>Ing</sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | AirGW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | AirGW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> |                                   |
| Nitrosodiphenylamine                                                            | 86-30-6    | 1.9E-01                               | c                 | 1.9E+01                                  | c                 | —                                                  | —                 | —                                                 | —                 | 4.2E-01                               | c                 | 4.2E+01                                  | c >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Nitroso-methyl-ethyl-amine, n-                                                  | 10595-95-6 | 4.1E-05                               | c                 | 4.1E-03                                  | c                 | —                                                  | —                 | —                                                 | —                 | 9.3E-05                               | c                 | 9.3E-03                                  | c                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Nitrosomorpholine, N-                                                           | 59-89-2    | 1.4E-04                               | c                 | 1.4E-02                                  | c                 | 2.7E+02                                            | c                 | 3.6E+01                                           | c                 | 3.1E-04                               | c                 | 3.1E-02                                  | c                 | 4.6E+02                                            | c                 | 6.0E+01                                           | c                 | —                                 |
| Nitroso-n-ethylurea, n-                                                         | 759-73-9   | 6.5E-06                               | c                 | 6.5E-04                                  | c                 | —                                                  | —                 | —                                                 | —                 | 1.5E-05                               | c                 | 1.5E-03                                  | c                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Nitrosopiperidine, N-                                                           | 100-75-4   | 9.7E-05                               | c                 | 9.7E-03                                  | c                 | 1.6E+02                                            | c                 | 2.1E+01                                           | c                 | 2.2E-04                               | c                 | 2.2E-02                                  | c                 | 2.8E+02                                            | c                 | 3.6E+01                                           | c                 | —                                 |
| Nitrosopyrrolidine, n-                                                          | 930-55-2   | 4.3E-04                               | c                 | 4.3E-02                                  | c                 | 9.6E+02                                            | c                 | 1.2E+02                                           | c                 | 9.7E-04                               | c                 | 9.7E-02                                  | c                 | 1.6E+03                                            | c                 | 2.1E+02                                           | c                 | —                                 |
| Nitrotoluene, m-                                                                | 99-08-1    | 2.4E-01                               | n                 | 2.4E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Nitrotoluene, o-                                                                | 88-72-2    | 4.1E-03                               | c                 | 4.1E-01                                  | c                 | —                                                  | —                 | —                                                 | —                 | 9.3E-03                               | c                 | 9.3E-01                                  | c                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Nitrotoluene, p-                                                                | 99-99-0    | 5.7E-02                               | c                 | 5.7E+00                                  | c                 | —                                                  | —                 | —                                                 | —                 | 1.3E-01                               | c                 | 1.3E+01                                  | c                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Nonachlor, cis-                                                                 | 5103-73-1  | 2.6E-03                               | c                 | 2.6E-01                                  | c >S              | 7.7E+02                                            | c >S              | 9.9E+01                                           | c >S              | 5.8E-03                               | c                 | 5.8E-01                                  | c >S              | 1.3E+03                                            | c >S              | 1.7E+02                                           | c >S              | —                                 |
| Nonachlor, trans-                                                               | 39765-80-5 | 2.6E-03                               | c                 | 2.6E-01                                  | c >S              | 7.7E+02                                            | c >S              | 9.9E+01                                           | c >S              | 5.8E-03                               | c                 | 5.8E-01                                  | c >S              | 1.3E+03                                            | c >S              | 1.7E+02                                           | c >S              | —                                 |
| Nonanal                                                                         | 124-19-6   | 4.9E+00                               | n                 | 4.9E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 1.5E+01                               | n                 | 1.5E+03                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Nonene, 1-n                                                                     | 124-11-8   | 2.4E+00                               | n >S              | 2.4E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 7.3E+00                               | n >S              | 7.3E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Nonylphenol, 4-n-                                                               | 104-40-5   | 2.4E+00                               | n >S              | 2.4E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 7.3E+00                               | n >S              | 7.3E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Nonylphenol ethoxylate                                                          | 9016-45-9  | 2.4E+00                               | n >S              | 2.4E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 7.3E+00                               | n >S              | 7.3E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Octamethylpyrophosphoramide                                                     | 152-16-9   | 4.9E-02                               | n                 | 4.9E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Octanone                                                                        | 106-68-3   | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 1.0E+06                                            | n >S              | 6.2E+05                                           | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n                 | 1.0E+06                                            | n >S              | 8.7E+05                                           | n >S              | —                                 |
| Oxamyl                                                                          | 23135-22-0 | 2.0E-01                               | m                 | 2.0E+01                                  | m                 | —                                                  | —                 | —                                                 | —                 | 2.0E-01                               | m                 | 2.0E+01                                  | m                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Oxychlordane                                                                    | 27304-13-8 | 2.6E-03                               | c                 | 2.6E-01                                  | c >S              | 7.7E+02                                            | c >S              | 9.9E+01                                           | c >S              | 5.8E-03                               | c                 | 5.8E-01                                  | c >S              | 1.3E+03                                            | c >S              | 1.7E+02                                           | c >S              | —                                 |
| Paraquat                                                                        | 1910-42-5  | 1.1E-01                               | n                 | 1.1E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 3.3E-01                               | n                 | 3.3E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Parathion (ethyl parathion)                                                     | 56-38-2    | 1.5E-01                               | n                 | 1.5E+01                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 4.4E-01                               | n                 | 4.4E+01                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Pebulate                                                                        | 1114-71-2  | 1.2E+00                               | n                 | 1.2E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 3.7E+00                               | n                 | 3.7E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Pendimethalin                                                                   | 40487-42-1 | 9.8E-01                               | n >S              | 9.8E+01                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 2.9E+00                               | n >S              | 2.9E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Pentachlorobenzene                                                              | 608-93-5   | 2.0E-02                               | n                 | 2.0E+00                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 5.8E-02                               | n                 | 5.8E+00                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Pentachloroethane                                                               | 76-01-7    | 1.0E-02                               | c                 | 1.0E+00                                  | c                 | 3.0E+02                                            | c                 | 3.8E+01                                           | c                 | 2.3E-02                               | c                 | 2.3E+00                                  | c                 | 5.0E+02                                            | c                 | 6.4E+01                                           | c                 | —                                 |
| Pentachloronitrobenzene                                                         | 82-68-8    | 3.5E-03                               | c                 | 3.5E-01                                  | c >S              | —                                                  | —                 | —                                                 | —                 | 7.9E-03                               | c                 | 7.9E-01                                  | c >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Pentachlorophenol                                                               | 87-86-5    | 1.0E-03                               | m                 | 1.0E-01                                  | m                 | —                                                  | —                 | —                                                 | —                 | 1.0E-03                               | m                 | 1.0E-01                                  | m                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Pentadiene, 1,3-cis-                                                            | 1574-41-0  | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 4.3E+04                                            | n >S              | 5.6E+03                                           | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n                 | 6.0E+04                                            | n >S              | 7.8E+03                                           | n >S              | —                                 |
| Pentadiene, 1,3-trans-                                                          | 2004-70-8  | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 7.6E+04                                            | n >S              | 9.8E+03                                           | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n                 | 1.1E+05                                            | n >S              | 1.4E+04                                           | n >S              | —                                 |
| Pentaerythritol tetranitrate (PETN)                                             | 78-11-5    | 4.9E-02                               | n                 | 4.9E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Pentane                                                                         | 109-66-0   | 1.5E+00                               | n                 | 1.5E+02                                  | n >S              | 3.4E+02                                            | n >S              | 4.4E+01                                           | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n >S              | 4.8E+02                                            | n >S              | 6.2E+01                                           | n >S              | —                                 |
| Pentane, 2-methyl-                                                              | 107-83-5   | 1.5E+00                               | n                 | 1.5E+02                                  | n >S              | 1.7E+03                                            | n >S              | 2.3E+02                                           | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n >S              | 2.4E+03                                            | n >S              | 3.2E+02                                           | n >S              | —                                 |
| Pentane, 3-methyl-                                                              | 96-14-0    | 1.5E+00                               | n                 | 1.5E+02                                  | n >S              | 2.2E+03                                            | n >S              | 2.9E+02                                           | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n >S              | 3.1E+03                                            | n >S              | 4.0E+02                                           | n >S              | —                                 |
| Pentanediol, 1,5-                                                               | 111-29-5   | 1.2E+02                               | n                 | 1.2E+04                                  | n                 | 1.0E+06                                            | n >S              | 1.0E+06                                           | n >S              | 3.7E+02                               | n                 | 3.7E+04                                  | n                 | 1.0E+06                                            | n >S              | 1.0E+06                                           | n >S              | —                                 |
| Pentanol, 1-                                                                    | 71-41-0    | 8.1E-01                               | n                 | 8.1E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 2.4E+00                               | n                 | 2.4E+02                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Pentanol, 4-methyl-2-                                                           | 108-11-2   | 6.4E-01                               | n                 | 6.4E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 1.9E+00                               | n                 | 1.9E+02                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Pentanone, 2-                                                                   | 107-87-9   | 9.8E-01                               | n                 | 9.8E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 2.9E+00                               | n                 | 2.9E+02                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Pentene, 2-                                                                     | 109-68-2   | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 1.4E+04                                            | n >S              | 1.8E+03                                           | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n >S              | 2.0E+04                                            | n >S              | 2.5E+03                                           | n >S              | —                                 |
| Pentvne, 1-                                                                     | 627-19-0   | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | 7.2E+04                                            | n >S              | 9.3E+03                                           | n >S              | 4.4E+00                               | n                 | 4.4E+02                                  | n                 | 1.0E+05                                            | n >S              | 1.3E+04                                           | n >S              | —                                 |
| Perchlorate                                                                     | 14797-73-0 | 1.7E-02                               | n                 | 1.7E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | 5.1E-02                               | n                 | 5.1E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptaecafluoro-1-) [PFOS] | 1763-23-1  | 5.6E-04                               | n                 | 5.6E-02                                  | n                 | 1.8E+03                                            | n >S              | 2.4E+02                                           | n                 | 1.7E-03                               | n                 | 1.7E-01                                  | n                 | 2.6E+03                                            | n >S              | 3.4E+02                                           | n                 | —                                 |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDA]              | 2058-94-8  | 2.9E-04                               | n                 | 2.9E-02                                  | n                 | —                                                  | —                 | —                                                 | —                 | 8.8E-04                               | n                 | 8.8E-02                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                   | 2706-90-3  | 1.2E-02                               | n                 | 1.2E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | 3.7E-02                               | n                 | 3.7E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                   | 307-24-4   | 1.2E-02                               | n                 | 1.2E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | 3.7E-02                               | n                 | 3.7E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Perfluorododecanoic acid (Dodecanoic acid, tricafluoro-) [PFDoA]                | 307-55-1   | 2.9E-04                               | n                 | 2.9E-02                                  | n                 | 5.5E+02                                            | n >S              | 7.2E+01                                           | n >S              | 8.8E-04                               | n                 | 8.8E-02                                  | n >S              | 7.8E+02                                            | n >S              | 1.0E+02                                           | n >S              | —                                 |
| Perfluorooctanoic acid (Octanoic acid, pentaecafluoro-) [PFOA]                  | 335-67-1   | 2.9E-04                               | n                 | 2.9E-02                                  | n                 | 9.0E+01                                            | n                 | 1.2E+01                                           | n                 | 8.8E-04                               | n                 | 8.8E-02                                  | n                 | 1.3E+02                                            | n                 | 1.6E+01                                           | n                 | —                                 |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                  | 335-76-2   | 3.7E-04                               | n                 | 3.7E-02                                  | n                 | 1.3E+03                                            | n >S              | 1.6E+02                                           | n >S              | 1.1E-03                               | n                 | 1.1E-01                                  | n                 | 1.8E+03                                            | n >S              | 2.3E+02                                           | n >S              | —                                 |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafluoro-) [PFDS]  | 335-77-3   | 2.9E-04                               | n                 | 2.9E-02                                  | n                 | —                                                  | —                 | —                                                 | —                 | 8.8E-04                               | n                 | 8.8E-02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS]   | 355-46-4   | 9.3E-05                               | n                 | 9.3E-03                                  | n                 | 2.9E+02                                            | n                 | 5.7E+01                                           | n                 | 2.8E-04                               | n                 | 2.8E-02                                  | n                 | 4.0E+02                                            | n >S              | 7.9E+01                                           | n                 | —                                 |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                      | 375-22-4   | 2.4E-02                               | n                 | 2.4E+00                                  | n                 | 3.0E+05                                            | n                 | 2.5E+05                                           | n                 | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | 4.2E+05                                            | n                 | 3.5E+05                                           | n                 | —                                 |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]       | 375-73-5   | 3.4E-02                               | n                 | 3.4E+00                                  | n                 | 5.4E+05                                            | n >S              | 4.7E+05                                           | n >S              | 1.0E-01                               | n                 | 1.0E+01                                  | n                 | 7.6E+05                                            | n >S              | 6.5E+05                                           | n >S              | —                                 |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]                | 375-85-9   | 5.6E-04                               | n                 | 5.6E-02                                  | n                 | —                                                  | —                 | —                                                 | —                 | 1.7E-03                               | n                 | 1.7E-01                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Perfluorononanoic acid (Nonanoic acid, heptaecafluoro-) [PFNA]                  | 375-95-1   | 2.9E-04                               | n                 | 2.9E-02                                  | n                 | 6.5E+02                                            | n >S              | 8.4E+01                                           | n >S              | 8.8E-04                               | n                 | 8.8E-02                                  | n                 | 9.1E+02                                            | n >S              | 1.2E+02                                           | n >S              | —                                 |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptaecafluoro-) [PFTeDA]      | 376-06-7   | 2.9E-04                               | n                 | 2.9E-02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 8.8E-04                               | n                 | 8.8E-02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Perfluorotridecanoic acid (Tridecanoic acid, pentaecafluoro-) [PFTrDA]          | 72629-94-8 | 2.9E-04                               | n                 | 2.9E-02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 8.8E-04                               | n                 | 8.8E-02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                         | CAS         | Residential                           |                   |                                          |                   |                                                                  |                   |                                                                 |                   | Commercial/Industrial                 |                   |                                          |                   |                                                                  |                   |                                                                 |                   | Secondary MCL <sup>5</sup> (mg/L) |
|-----------------------------------------------------------------------------|-------------|---------------------------------------|-------------------|------------------------------------------|-------------------|------------------------------------------------------------------|-------------------|-----------------------------------------------------------------|-------------------|---------------------------------------|-------------------|------------------------------------------|-------------------|------------------------------------------------------------------|-------------------|-----------------------------------------------------------------|-------------------|-----------------------------------|
|                                                                             |             | GW <sup>2</sup> <sub>Ing</sub> (mg/L) | note <sup>4</sup> | GW <sup>3</sup> <sub>Class3</sub> (mg/L) | note <sup>4</sup> | Air GW <sup>1</sup> <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air GW <sup>1</sup> <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> | GW <sup>2</sup> <sub>Ing</sub> (mg/L) | note <sup>4</sup> | GW <sup>3</sup> <sub>Class3</sub> (mg/L) | note <sup>4</sup> | Air GW <sup>1</sup> <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air GW <sup>1</sup> <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> |                                   |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) (PFOSA) | 754-91-6    | 2.9E-04                               | n                 | 2.9E-02                                  | n                 | 5.3E-05                                                          | n                 | 6.8E-06                                                         | n                 | 8.8E-04                               | n                 | 8.8E-02                                  | n >S              | 7.4E-05                                                          | n                 | 9.6E-06                                                         | n                 | —                                 |
| Perylene                                                                    | 198-55-0    | 4.9E-01                               | n >S              | 4.9E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 1.5E+00                               | n >S              | 1.5E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phenacetin                                                                  | 62-44-2     | 4.1E-01                               | c                 | 4.1E+01                                  | c                 | 1.0E+06                                                          | c >S              | 1.5E+05                                                         | c >S              | 9.3E-01                               | c                 | 9.3E+01                                  | c                 | 1.0E+06                                                          | c >S              | 2.5E+05                                                         | c >S              | —                                 |
| Phenanthrene                                                                | 85-01-8     | 7.3E-01                               | n                 | 7.3E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 2.2E+00                               | n >S              | 2.2E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phenanthridine                                                              | 229-87-8    | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phenol                                                                      | 108-95-2    | 7.3E+00                               | n                 | 7.3E+02                                  | n                 | 1.6E+05                                                          | n >S              | 2.1E+04                                                         | n                 | 2.2E+01                               | n                 | 2.2E+03                                  | n                 | 2.2E+05                                                          | n >S              | 2.9E+04                                                         | n                 | —                                 |
| Phenol, 4-tert-butyl-                                                       | 98-54-4     | 2.9E+00                               | n                 | 2.9E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 8.8E+00                               | n                 | 8.8E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phenothiazine                                                               | 92-84-2     | 2.7E-02                               | n >S              | 2.7E+00                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 8.0E-02                               | n >S              | 8.0E+00                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phenyl mercuric acetate                                                     | 62-38-4     | 2.0E-03                               | n                 | 2.0E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 5.8E-03                               | n                 | 5.8E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phenylene diamine, m-                                                       | 108-45-2    | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 4.4E-01                               | n                 | 4.4E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phenylene diamine, p-                                                       | 106-50-3    | 4.6E+00                               | n                 | 4.6E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.4E+01                               | n                 | 1.4E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phorate                                                                     | 298-02-2    | 4.9E-03                               | n                 | 4.9E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E-02                               | n                 | 1.5E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phosalone                                                                   | 2310-17-0   | 4.9E-02                               | n                 | 4.9E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phosdrin (mevinphos)                                                        | 7786-34-7   | 6.1E-04                               | n                 | 6.1E-02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.8E-03                               | n                 | 1.8E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phosmet                                                                     | 732-11-6    | 4.9E-01                               | n                 | 4.9E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phosphine                                                                   | 7803-51-2   | 7.3E-03                               | n                 | 7.3E-01                                  | n                 | 2.9E-03                                                          | n                 | 3.7E-04                                                         | n                 | 2.2E-02                               | n                 | 2.2E+00                                  | n                 | 4.0E-03                                                          | n                 | 5.2E-04                                                         | n                 | —                                 |
| Phosphorothioic acid, S,S,S-tributyl ester                                  | 78-48-8     | 1.1E-02                               | c >S              | 1.1E+00                                  | c >S              | —                                                                | —                 | —                                                               | —                 | 2.4E-02                               | c >S              | 2.4E+00                                  | c >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phosphorus, total*                                                          | 7723-14-0   | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phosphorus, white                                                           | 7723-14-0   | 4.9E-04                               | n                 | 4.9E-02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E-03                               | n                 | 1.5E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Phthalic anhydride                                                          | 85-44-9     | 4.9E+01                               | n                 | 4.9E+03                                  | n                 | 1.0E+06                                                          | n >S              | 4.0E+05                                                         | n >S              | 1.5E+02                               | n                 | 1.5E+04                                  | n >S              | 1.0E+06                                                          | n >S              | 5.6E+05                                                         | n >S              | —                                 |
| Picloram                                                                    | 1918-02-1   | 5.0E-01                               | m                 | 5.0E+01                                  | m                 | —                                                                | —                 | —                                                               | —                 | 5.0E-01                               | m                 | 5.0E+01                                  | m                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Picoline, 2- (2-methylpyridine)                                             | 109-06-8    | 2.2E-01                               | n                 | 2.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 6.6E-01                               | n                 | 6.6E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Polybrominated biphenyls (PBBs)                                             | 67774-32-7  | 1.0E-04                               | c                 | 1.0E-02                                  | c                 | —                                                                | —                 | —                                                               | —                 | 2.3E-04                               | c                 | 2.3E-02                                  | c >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Polychlorinated biphenyls (PCBs)                                            | 1336-36-3   | 5.0E-04                               | m                 | 5.0E-02                                  | m                 | 2.9E+00                                                          | c >S              | 3.8E-01                                                         | c >S              | 5.0E-04                               | m                 | 5.0E-02                                  | m                 | 4.9E+00                                                          | c >S              | 6.4E-01                                                         | c >S              | —                                 |
| Potassium*                                                                  | 7440-09-7   | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Primene                                                                     | 68955-53-3  | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 4.4E-01                               | n                 | 4.4E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Prometon (pramitol)                                                         | 1610-18-0   | 3.7E-01                               | n                 | 3.7E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.1E+00                               | n                 | 1.1E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Prometryn                                                                   | 7287-19-6   | 9.8E-01                               | n                 | 9.8E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 2.9E+00                               | n                 | 2.9E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Pronamide                                                                   | 23950-58-5  | 1.8E+00                               | n                 | 1.8E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 5.5E+00                               | n                 | 5.5E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propanal (propionaldehyde)                                                  | 123-38-6    | 2.0E-01                               | n                 | 2.0E+01                                  | n                 | 1.6E+03                                                          | n                 | 2.1E+02                                                         | n                 | 5.8E-01                               | n                 | 5.8E+01                                  | n                 | 2.3E+03                                                          | n                 | 3.0E+02                                                         | n                 | —                                 |
| Propane, 1-bromo-                                                           | 106-94-5    | 8.8E-01                               | n                 | 8.8E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.6E+00                               | n                 | 2.6E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propanil                                                                    | 709-98-8    | 1.2E-01                               | n                 | 1.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 3.7E-01                               | n                 | 3.7E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propanoic acid (propionic acid)                                             | 79-09-4     | 1.2E+01                               | n                 | 1.2E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | 3.7E+01                               | n                 | 3.7E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propanol, 1-                                                                | 71-23-8     | 4.9E+01                               | n                 | 4.9E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E+02                               | n                 | 1.5E+04                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propargite                                                                  | 2312-35-8   | 4.9E-01                               | n                 | 4.9E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 1.5E+00                               | n >S              | 1.5E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propargyl alcohol                                                           | 107-19-7    | 4.9E-02                               | n                 | 4.9E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E-01                               | n                 | 1.5E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propazine                                                                   | 139-40-2    | 2.1E-02                               | c                 | 2.1E+00                                  | c                 | —                                                                | —                 | —                                                               | —                 | 4.6E-02                               | c                 | 4.6E+00                                  | c                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propham                                                                     | 122-42-9    | 4.9E-01                               | n                 | 4.9E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E+00                               | n                 | 1.5E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propionitrile (propane nitrile)                                             | 107-12-0    | 9.8E-03                               | n                 | 9.8E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.9E-02                               | n                 | 2.9E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propyl acetate, n-                                                          | 109-60-4    | 2.2E+00                               | n                 | 2.2E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 6.6E+00                               | n                 | 6.6E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Propylbenzene, n-                                                           | 103-65-1    | 9.8E-01                               | n                 | 9.8E+01                                  | n >S              | 6.0E+03                                                          | n >S              | 7.8E+02                                                         | n >S              | 2.9E+00                               | n                 | 2.9E+02                                  | n >S              | 8.5E+03                                                          | n >S              | 1.1E+03                                                         | n >S              | —                                 |
| Propylene glycol                                                            | 57-55-6     | 4.9E+02                               | n                 | 4.9E+04                                  | n                 | 5.0E+04                                                          | n                 | 6.4E+03                                                         | n                 | 1.5E+03                               | n                 | 1.5E+05                                  | n >S              | 7.0E+04                                                          | n                 | 9.0E+03                                                         | n                 | —                                 |
| Propylene glycol monomethyl ether                                           | 107-98-2    | 1.7E+01                               | n                 | 1.7E+03                                  | n                 | 1.0E+06                                                          | n >S              | 1.0E+06                                                         | n >S              | 5.1E+01                               | n                 | 5.1E+03                                  | n                 | 1.0E+06                                                          | n >S              | 1.0E+06                                                         | n >S              | —                                 |
| Propylene oxide                                                             | 75-56-9     | 3.8E-03                               | c                 | 3.8E-01                                  | c                 | 1.6E+03                                                          | c                 | 2.0E+02                                                         | c                 | 8.5E-03                               | c                 | 8.5E-01                                  | c                 | 2.7E+03                                                          | c                 | 3.4E+02                                                         | c                 | —                                 |
| Propylene tetramer                                                          | 6842-15-5   | 2.4E+00                               | n >S              | 2.4E+02                                  | n >S              | 4.4E+01                                                          | n >S              | 5.7E+00                                                         | n >S              | 7.3E+00                               | n >S              | 7.3E+02                                  | n >S              | 6.2E+01                                                          | n >S              | 8.0E+00                                                         | n >S              | —                                 |
| Prothiofos (Tokuthion)                                                      | 34643-46-4  | 2.4E-03                               | n                 | 2.4E-01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 7.3E-03                               | n >S              | 7.3E-01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Pyrene                                                                      | 129-00-0    | 7.3E-01                               | n >S              | 7.3E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 2.2E+00                               | n >S              | 2.2E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Pyridine                                                                    | 110-86-1    | 2.4E-02                               | n                 | 2.4E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | 7.3E-02                               | n                 | 7.3E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Quinoline                                                                   | 91-22-5     | 3.0E-04                               | c                 | 3.0E-02                                  | c                 | —                                                                | —                 | —                                                               | —                 | 6.8E-04                               | c                 | 6.8E-02                                  | c                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Ronnel                                                                      | 299-84-3    | 1.2E+00                               | n                 | 1.2E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 3.7E+00                               | n >S              | 3.7E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Safrole                                                                     | 94-59-7     | 4.1E-03                               | c                 | 4.1E-01                                  | c                 | 1.9E+02                                                          | c >S              | 2.4E+01                                                         | c                 | 9.3E-03                               | c                 | 9.3E-01                                  | c                 | 3.2E+02                                                          | c >S              | 4.1E+01                                                         | c                 | —                                 |
| Selenium                                                                    | 7782-49-2   | 5.0E-02                               | m >S              | 5.0E+00                                  | m >S              | —                                                                | —                 | —                                                               | —                 | 5.0E-02                               | m >S              | 5.0E+00                                  | m >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Selenourea                                                                  | 630-10-4    | 1.2E-01                               | n                 | 1.2E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 3.7E-01                               | n                 | 3.7E+01                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Silver                                                                      | 7440-22-4   | 1.2E-01                               | n >S              | 1.2E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 3.7E-01                               | n >S              | 3.7E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 1.0E-01                           |
| Simazine                                                                    | 122-34-9    | 4.0E-03                               | m                 | 4.0E-01                                  | m                 | —                                                                | —                 | —                                                               | —                 | 4.0E-03                               | m                 | 4.0E-01                                  | m                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Sodium*                                                                     | 7440-23-5   | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Sodium hypochlorite                                                         | 7681-52-9   | 5.1E+00                               | n                 | 5.1E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 1.5E+01                               | n                 | 1.5E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Sodium polyacrylate                                                         | 9003-04-7   | 1.2E+01                               | n                 | 1.2E+03                                  | n                 | 1.5E+04                                                          | n                 | 2.0E+03                                                         | n                 | 3.7E+01                               | n                 | 3.7E+03                                  | n                 | 2.1E+04                                                          | n                 | 2.7E+03                                                         | n                 | —                                 |
| Strontium                                                                   | 7440-24-6   | 1.5E+01                               | n                 | 1.5E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | 4.4E+01                               | n                 | 4.4E+03                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Strychnine                                                                  | 57-24-9     | 7.3E-03                               | n                 | 7.3E-01                                  | n                 | —                                                                | —                 | —                                                               | —                 | 2.2E-02                               | n                 | 2.2E+00                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Styrene                                                                     | 100-42-5    | 1.0E-01                               | m                 | 1.0E+01                                  | m                 | 1.5E+04                                                          | n >S              | 2.0E+03                                                         | n >S              | 1.0E-01                               | m                 | 1.0E+01                                  | m                 | 2.1E+04                                                          | n >S              | 2.7E+03                                                         | n >S              | —                                 |
| Sulfate*                                                                    | 14808-79-8  | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | 2.5E+02                           |
| Sulfide*                                                                    | 18496-25-8  | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Sulfolane                                                                   | 126-33-0    | 3.2E-01                               | n                 | 3.2E+01                                  | n                 | 1.3E+05                                                          | n >S              | 1.7E+04                                                         | n >S              | 9.5E-01                               | n                 | 9.5E+01                                  | n                 | 1.8E+05                                                          | n >S              | 2.3E+04                                                         | n >S              | —                                 |
| Sulfur*                                                                     | 7704-34-9   | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                     | —                 | —                                        | —                 | —                                                                | —                 | —                                                               | —                 | —                                 |
| Sulprofos (Bolstar)                                                         | 35400-43-2  | 7.3E-02                               | n >S              | 7.3E+00                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 2.2E-01                               | n >S              | 2.2E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Tebuconazole                                                                | 107534-96-3 | 7.3E-01                               | n                 | 7.3E+01                                  | n >S              | —                                                                | —                 | —                                                               | —                 | 2.2E+00                               | n                 | 2.2E+02                                  | n >S              | —                                                                | —                 | —                                                               | —                 | —                                 |
| Tebuthiuron                                                                 | 34014-18-1  | 1.7E+00                               | n                 | 1.7E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | 5.1E+00                               | n                 | 5.1E+02                                  | n                 | —                                                                | —                 | —                                                               | —                 | —                                 |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                       | CAS        | Residential                           |                   |                                          |                   |                                                    |                   |                                                   |                   | Commercial/Industrial                 |                   |                                          |                   |                                                    |                   |                                                   |                   | Secondary MCL <sup>5</sup> (mg/L) |
|-------------------------------------------|------------|---------------------------------------|-------------------|------------------------------------------|-------------------|----------------------------------------------------|-------------------|---------------------------------------------------|-------------------|---------------------------------------|-------------------|------------------------------------------|-------------------|----------------------------------------------------|-------------------|---------------------------------------------------|-------------------|-----------------------------------|
|                                           |            | GW <sub>Ing</sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | AirGW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | AirGW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> | GW <sub>Ing</sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | AirGW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | AirGW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> |                                   |
| Terbufos                                  | 13071-79-9 | 6.1E-04                               | n                 | 6.1E-02                                  | n                 | —                                                  | —                 | —                                                 | —                 | 1.8E-03                               | n                 | 1.8E-01                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tert-amyl ethyl ether (TAEF)              | 919-94-8   | 9.8E-01                               | n                 | 9.8E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 2.9E+00                               | n                 | 2.9E+02                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tert-amyl-methyl ether (TAME)             | 994-05-8   | 9.8E-01                               | n                 | 9.8E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 2.9E+00                               | n                 | 2.9E+02                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0    | 1.7E+01                               | n                 | 1.7E+03                                  | n                 | 1.0E+06                                            | n >S              | 1.0E+06                                           | n >S              | 5.1E+01                               | n                 | 5.1E+03                                  | n                 | 1.0E+06                                            | n >S              | 1.0E+06                                           | n >S              | —                                 |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2   | 7.3E-03                               | n                 | 7.3E-01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 2.2E-02                               | n                 | 2.2E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2   | 7.3E-03                               | n                 | 7.3E-01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 2.2E-02                               | n                 | 2.2E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3    | 7.3E-03                               | n                 | 7.3E-01                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 2.2E-02                               | n                 | 2.2E+00                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6   | 3.5E-02                               | c                 | 3.5E+00                                  | c                 | 1.1E+02                                            | c                 | 1.4E+01                                           | c                 | 7.9E-02                               | c                 | 7.9E+00                                  | c                 | 1.9E+02                                            | c                 | 2.4E+01                                           | c                 | —                                 |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5    | 4.6E-03                               | c                 | 4.6E-01                                  | c                 | —                                                  | —                 | —                                                 | —                 | 1.0E-02                               | c                 | 1.0E+00                                  | c                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetrachloroethylene [PCE]                 | 127-18-4   | 5.0E-03                               | m                 | 5.0E-01                                  | m                 | 5.0E+02                                            | c >S              | 6.4E+01                                           | c                 | 5.0E-03                               | m                 | 5.0E-01                                  | m                 | 8.4E+02                                            | c >S              | 1.1E+02                                           | c                 | —                                 |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3  | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 2.2E+00                               | n                 | 2.2E+02                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2    | 7.3E-01                               | n                 | 7.3E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 2.2E+00                               | n                 | 2.2E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5   | 7.3E-01                               | n                 | 7.3E+01                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 2.2E+00                               | n >S              | 2.2E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetrachlorvinphos (Stiropfos)             | 22248-79-9 | 1.0E+00                               | n                 | 1.0E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 3.1E+00                               | n                 | 3.1E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetradifon                                | 116-29-0   | 4.9E-01                               | n                 | 4.9E+01                                  | n >S              | —                                                  | —                 | —                                                 | —                 | 1.5E+00                               | n >S              | 1.5E+02                                  | n >S              | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5  | 1.2E-02                               | n                 | 1.2E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | 3.7E-02                               | n                 | 3.7E+00                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetraethyl lead                           | 78-00-2    | 2.4E-06                               | n                 | 2.4E-04                                  | n                 | —                                                  | —                 | —                                                 | —                 | 7.3E-06                               | n                 | 7.3E-04                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3   | 2.7E-04                               | n                 | 2.7E-02                                  | n                 | —                                                  | —                 | —                                                 | —                 | 8.0E-04                               | n                 | 8.0E-02                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetraethylene glycol                      | 112-60-7   | 8.1E+00                               | n                 | 8.1E+02                                  | n                 | —                                                  | —                 | —                                                 | —                 | 2.4E+01                               | n                 | 2.4E+03                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |
| Tetrahydrofuran                           | 109-99-9   | 1.2E-01                               | c                 | 1.2E+01                                  | c                 | 2.2E+03                                            | c                 | 2.9E+02                                           | c                 | 2.7E-01                               | c                 | 2.7E+01                                  | c                 | 3.7E+03                                            | c                 | 4.8E+02                                           | c                 | —                                 |
| Tetrahydropyran                           | 142-68-7   | 1.2E-01                               | c                 | 1.2E+01                                  | c                 | 2.6E+03                                            | c                 | 3.4E+02                                           | c                 | 2.7E-01                               | c                 | 2.7E+01                                  | c                 | 4.4E+03                                            | c                 | 5.7E+02                                           | c                 | —                                 |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2   | 6.1E-01                               | n                 | 6.1E+01                                  | n                 | —                                                  | —                 | —                                                 | —                 | 1.8E+00                               | n                 | 1.8E+02                                  | n                 | —                                                  | —                 | —                                                 | —                 | —                                 |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                     | CAS        | Residential                              |                   |                                             |                   |                                                                     |                   |                                                                       |                   | Commercial/Industrial                    |                   |                                             |                   |                                                                        |                   |                                                                       |                   | Secondary<br>MCL <sup>5</sup><br>(mg/L) |
|-----------------------------------------|------------|------------------------------------------|-------------------|---------------------------------------------|-------------------|---------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|-------------------|------------------------------------------|-------------------|---------------------------------------------|-------------------|------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|-------------------|-----------------------------------------|
|                                         |            | GW <sub>Ing</sub> <sup>2</sup><br>(mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup><br>(mg/L) | note <sup>4</sup> | Air <sub>GW<sub>Inh-V</sub></sub><br>0.5 acre source<br>area (mg/L) | note <sup>4</sup> | Air <sub>GW<sub>Inh-V</sub></sub><br>30 acre<br>source area<br>(mg/L) | note <sup>4</sup> | GW <sub>Ing</sub> <sup>2</sup><br>(mg/L) | note <sup>4</sup> | GW <sub>Class3</sub> <sup>3</sup><br>(mg/L) | note <sup>4</sup> | Air <sub>GW<sub>Inh-V</sub></sub><br>0.5 acre<br>source area<br>(mg/L) | note <sup>4</sup> | Air <sub>GW<sub>Inh-V</sub></sub><br>30 acre<br>source area<br>(mg/L) | note <sup>4</sup> |                                         |
| Thallium                                | 7440-28-0  | 2.0E-03                                  | m                 | 2.0E-01                                     | m                 | —                                                                   | —                 | —                                                                     | —                 | 2.0E-03                                  | m                 | 2.0E-01                                     | m                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Thiofanox                               | 39196-18-4 | 7.3E-03                                  | n                 | 7.3E-01                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 2.2E-02                                  | n                 | 2.2E+00                                     | n                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Thionazin                               | 297-97-2   | 1.7E-03                                  | n                 | 1.7E-01                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 5.1E-03                                  | n                 | 5.1E-01                                     | n                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Thiophanate-methyl                      | 23564-05-8 | 2.0E+00                                  | n                 | 2.0E+02                                     | n >S              | —                                                                   | —                 | —                                                                     | —                 | 5.8E+00                                  | n >S              | 5.8E+02                                     | n >S              | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Thiram                                  | 137-26-8   | 1.2E-01                                  | n                 | 1.2E+01                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 3.7E-01                                  | n                 | 3.7E+01                                     | n >S              | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Tin                                     | 7440-31-5  | 1.5E+01                                  | n >S              | 1.5E+03                                     | n >S              | —                                                                   | —                 | —                                                                     | —                 | 4.4E+01                                  | n >S              | 4.4E+03                                     | n >S              | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Titanium                                | 7440-32-6  | 1.2E+02                                  | n >S              | 1.2E+04                                     | n >S              | —                                                                   | —                 | —                                                                     | —                 | 3.7E+02                                  | n >S              | 3.7E+04                                     | n >S              | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Toluene                                 | 108-88-3   | 1.0E+00                                  | m                 | 1.0E+02                                     | m                 | 6.4E+04                                                             | n >S              | 8.2E+03                                                               | n >S              | 1.0E+00                                  | m                 | 1.0E+02                                     | m                 | 8.9E+04                                                                | n >S              | 1.2E+04                                                               | n >S              | —                                       |
| Toluene diisocyanate, 2,4/2,6-          | 26471-62-5 | —                                        | —                 | —                                           | —                 | 1.8E+03                                                             | n                 | 2.4E+02                                                               | n                 | —                                        | —                 | —                                           | —                 | 2.6E+03                                                                | n                 | 3.3E+02                                                               | n                 | —                                       |
| Toluenediamine, 2,4-                    | 95-80-7    | 2.9E-04                                  | c                 | 2.9E-02                                     | c                 | —                                                                   | —                 | —                                                                     | —                 | 6.4E-04                                  | c                 | 6.4E-02                                     | c                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Toluenediamine, 2,6-                    | 823-40-5   | 7.3E-01                                  | n                 | 7.3E+01                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 2.2E+00                                  | n                 | 2.2E+02                                     | n                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Toluidine, o-                           | 95-53-4    | 5.7E-02                                  | c                 | 5.7E+00                                     | c                 | 2.6E+03                                                             | c                 | 3.4E+02                                                               | c                 | 1.3E-01                                  | c                 | 1.3E+01                                     | c                 | 4.4E+03                                                                | c                 | 5.7E+02                                                               | c                 | —                                       |
| Toluidine, p-                           | 106-49-0   | 3.0E-02                                  | c                 | 3.0E+00                                     | c                 | —                                                                   | —                 | —                                                                     | —                 | 6.8E-02                                  | c                 | 6.8E+00                                     | c                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Toxaphene                               | 8001-35-2  | 3.0E-03                                  | m                 | 3.0E-01                                     | m                 | 1.8E+03                                                             | c >S              | 2.3E+02                                                               | c >S              | 3.0E-03                                  | m                 | 3.0E-01                                     | m                 | 3.0E+03                                                                | c >S              | 3.9E+02                                                               | c >S              | —                                       |
| TPH, TX1005, C6-C12                     | TPH-1005-1 | 9.8E-01                                  | n                 | 9.8E+01                                     | n >S              | 1.8E+03                                                             | n >S              | 2.3E+02                                                               | n >S              | 2.9E+00                                  | n                 | 2.9E+02                                     | n >S              | 2.5E+03                                                                | n >S              | 3.2E+02                                                               | n >S              | —                                       |
| TPH, TX1005, >C12-C28                   | TPH-1005-2 | 9.8E-01                                  | n                 | 9.8E+01                                     | n >S              | 7.5E+03                                                             | n >S              | 9.7E+02                                                               | n >S              | 2.9E+00                                  | n                 | 2.9E+02                                     | n >S              | 1.0E+04                                                                | n >S              | 1.4E+03                                                               | n >S              | —                                       |
| TPH, TX1005, >C12-C35                   | TPH-1005-3 | 9.8E-01                                  | n                 | 9.8E+01                                     | n >S              | 7.5E+03                                                             | n >S              | 9.7E+02                                                               | n >S              | 2.9E+00                                  | n                 | 2.9E+02                                     | n >S              | 1.0E+04                                                                | n >S              | 1.4E+03                                                               | n >S              | —                                       |
| TPH, TX1005, >C28-C35                   | TPH-1005-4 | 9.8E-01                                  | n                 | 9.8E+01                                     | n >S              | 7.5E+03                                                             | n >S              | 9.7E+02                                                               | n >S              | 2.9E+00                                  | n                 | 2.9E+02                                     | n >S              | 1.0E+04                                                                | n >S              | 1.4E+03                                                               | n >S              | —                                       |
| TP Silvex, 2,4,5-                       | 93-72-1    | 5.0E-02                                  | m                 | 5.0E+00                                     | m                 | —                                                                   | —                 | —                                                                     | —                 | 5.0E-02                                  | m                 | 5.0E+00                                     | m                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Triademenol                             | 55219-65-3 | 7.3E-01                                  | n                 | 7.3E+01                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 2.2E+00                                  | n                 | 2.2E+02                                     | n >S              | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Triallate                               | 2303-17-5  | 3.2E-01                                  | n                 | 3.2E+01                                     | n >S              | —                                                                   | —                 | —                                                                     | —                 | 9.5E-01                                  | n                 | 9.5E+01                                     | n >S              | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Triaminotrinrobenzene (TATB)            | 3058-38-6  | 7.3E-02                                  | n                 | 7.3E+00                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 2.2E-01                                  | n                 | 2.2E+01                                     | n                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Tributyltin oxide                       | 56-35-9    | 7.3E-03                                  | n                 | 7.3E-01                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 2.2E-02                                  | n                 | 2.2E+00                                     | n                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Trichloro-1,2,2-trifluoroethane, 1,1,2- | 76-13-1    | 7.3E+02                                  | n >S              | 7.3E+04                                     | n >S              | 1.5E+03                                                             | n >S              | 2.0E+02                                                               | n                 | 2.2E+03                                  | n >S              | 2.2E+05                                     | n >S              | 2.1E+03                                                                | n >S              | 2.8E+02                                                               | n >S              | —                                       |
| Trichlorobenzene, 1,2,3-                | 87-61-6    | 7.3E-02                                  | n                 | 7.3E+00                                     | n                 | 1.3E+02                                                             | n >S              | 1.7E+01                                                               | n >S              | 2.2E-01                                  | n                 | 2.2E+01                                     | n >S              | 1.9E+02                                                                | n >S              | 2.4E+01                                                               | n >S              | —                                       |
| Trichlorobenzene, 1,2,4-                | 120-82-1   | 7.0E-02                                  | m                 | 7.0E+00                                     | m                 | 1.6E+02                                                             | n >S              | 2.0E+01                                                               | n                 | 7.0E-02                                  | m                 | 7.0E+00                                     | m                 | 2.2E+02                                                                | n >S              | 2.8E+01                                                               | n                 | —                                       |
| Trichlorobenzene, 1,3,5-                | 108-70-3   | 7.3E-02                                  | n                 | 7.3E+00                                     | n                 | 1.0E+02                                                             | n >S              | 1.3E+01                                                               | n                 | 2.2E-01                                  | n                 | 2.2E+01                                     | n >S              | 1.4E+02                                                                | n >S              | 1.8E+01                                                               | n >S              | —                                       |
| Trichloroethane, 1,1,1-                 | 71-55-6    | 2.0E-01                                  | m                 | 2.0E+01                                     | m                 | 4.1E+04                                                             | n >S              | 5.2E+03                                                               | n >S              | 2.0E-01                                  | m                 | 2.0E+01                                     | m                 | 5.7E+04                                                                | n >S              | 7.3E+03                                                               | n >S              | —                                       |
| Trichloroethane, 1,1,2-                 | 79-00-5    | 5.0E-03                                  | m                 | 5.0E-01                                     | m                 | 8.0E+01                                                             | c                 | 1.0E+01                                                               | c                 | 5.0E-03                                  | m                 | 5.0E-01                                     | m                 | 1.3E+02                                                                | c                 | 1.7E+01                                                               | c                 | —                                       |
| Trichloroethylene [TCE]                 | 79-01-6    | 5.0E-03                                  | m                 | 5.0E-01                                     | m                 | 2.4E+01                                                             | n                 | 3.1E+00                                                               | n                 | 5.0E-03                                  | m                 | 5.0E-01                                     | m                 | 3.3E+01                                                                | n                 | 4.3E+00                                                               | n                 | —                                       |
| Trichlorofluoromethane                  | 75-69-4    | 7.3E+00                                  | n                 | 7.3E+02                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 2.2E+01                                  | n                 | 2.2E+03                                     | n >S              | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Trichloronate                           | 327-98-0   | 7.3E-02                                  | n                 | 7.3E+00                                     | n >S              | —                                                                   | —                 | —                                                                     | —                 | 2.2E-01                                  | n                 | 2.2E+01                                     | n >S              | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Trichlorophenol, 2,3,4-                 | 15950-66-0 | 2.4E+00                                  | n                 | 2.4E+02                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 7.3E+00                                  | n                 | 7.3E+02                                     | n                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Trichlorophenol, 2,3,5-                 | 933-78-8   | 2.4E+00                                  | n                 | 2.4E+02                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 7.3E+00                                  | n                 | 7.3E+02                                     | n                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Trichlorophenol, 2,3,6-                 | 933-75-5   | 2.4E+00                                  | n                 | 2.4E+02                                     | n >S              | —                                                                   | —                 | —                                                                     | —                 | 7.3E+00                                  | n                 | 7.3E+02                                     | n >S              | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Trichlorophenol, 2,4,5-                 | 95-95-4    | 2.4E+00                                  | n                 | 2.4E+02                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 7.3E+00                                  | n                 | 7.3E+02                                     | n                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |
| Trichlorophenol, 2,4,6-                 | 88-06-2    | 2.4E-02                                  | n                 | 2.4E+00                                     | n                 | 4.9E+04                                                             | c >S              | 6.4E+03                                                               | c >S              | 7.3E-02                                  | n                 | 7.3E+00                                     | n                 | 8.3E+04                                                                | c >S              | 1.1E+04                                                               | c >S              | —                                       |
| Trichlorophenol, 3,4,5-                 | 609-19-8   | 2.4E+00                                  | n                 | 2.4E+02                                     | n                 | —                                                                   | —                 | —                                                                     | —                 | 7.3E+00                                  | n                 | 7.3E+02                                     | n                 | —                                                                      | —                 | —                                                                     | —                 | —                                       |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                               | CAS       | Residential                                        |                   |                                                       |                   |                                                               |                   |                                                              |                   | Commercial/Industrial                              |                   |                                                       |                   |                                                               |                   |                                                              |                   | Secondary MCL <sup>5</sup> (mg/L) |
|---------------------------------------------------|-----------|----------------------------------------------------|-------------------|-------------------------------------------------------|-------------------|---------------------------------------------------------------|-------------------|--------------------------------------------------------------|-------------------|----------------------------------------------------|-------------------|-------------------------------------------------------|-------------------|---------------------------------------------------------------|-------------------|--------------------------------------------------------------|-------------------|-----------------------------------|
|                                                   |           | GW <sub>GW<sub>Ing</sub></sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | GW <sub>GW<sub>Class3</sub></sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | Air <sub>GW<sub>Inh-V</sub></sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air <sub>GW<sub>Inh-V</sub></sub> 30 acre source area (mg/L) | note <sup>4</sup> | GW <sub>GW<sub>Ing</sub></sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | GW <sub>GW<sub>Class3</sub></sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | Air <sub>GW<sub>Inh-V</sub></sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | Air <sub>GW<sub>Inh-V</sub></sub> 30 acre source area (mg/L) | note <sup>4</sup> |                                   |
| Trichlorophenoxyacetic acid, 2,4,5-               | 93-76-5   | 2.4E-01                                            | n                 | 2.4E+01                                               | n                 | —                                                             | —                 | —                                                            | —                 | 7.3E-01                                            | n                 | 7.3E+01                                               | n                 | —                                                             | —                 | —                                                            | —                 | —                                 |
| Trichloropropane, 1,1,2-                          | 598-77-6  | 1.2E-01                                            | n                 | 1.2E+01                                               | n                 | 2.7E+00                                                       | n                 | 3.5E-01                                                      | n                 | 3.7E-01                                            | n                 | 3.7E+01                                               | n                 | 3.8E+00                                                       | n                 | 4.9E-01                                                      | n                 | —                                 |
| Trichloropropane, 1,2,3-                          | 96-18-4   | 3.0E-05                                            | c                 | 3.0E-03                                               | c                 | 3.2E+01                                                       | n                 | 4.2E+00                                                      | n                 | 6.8E-05                                            | c                 | 6.8E-03                                               | c                 | 4.5E+01                                                       | n                 | 5.8E+00                                                      | n                 | —                                 |
| Triethanolamine                                   | 102-71-6  | 4.9E+00                                            | n                 | 4.9E+02                                               | n                 | 1.0E+06                                                       | n                 | 1.0E+06                                                      | n                 | 1.5E+01                                            | n                 | 1.5E+03                                               | n                 | 1.0E+06                                                       | n                 | 1.0E+06                                                      | n                 | —                                 |
| Triethylamine                                     | 121-44-8  | —                                                  | —                 | —                                                     | —                 | 6.3E+02                                                       | n                 | 8.1E+01                                                      | n                 | —                                                  | —                 | —                                                     | —                 | 8.8E+02                                                       | n                 | 1.1E+02                                                      | n                 | —                                 |
| Triethylene glycol                                | 112-27-6  | 4.9E+01                                            | n                 | 4.9E+03                                               | n                 | —                                                             | —                 | —                                                            | —                 | 1.5E+02                                            | n                 | 1.5E+04                                               | n                 | —                                                             | —                 | —                                                            | —                 | —                                 |
| Triethylphosphorothioate, O, O, O-                | 126-68-1  | 2.0E-04                                            | n                 | 2.0E-02                                               | n                 | —                                                             | —                 | —                                                            | —                 | 6.1E-04                                            | n                 | 6.1E-02                                               | n                 | —                                                             | —                 | —                                                            | —                 | —                                 |
| Trifluralin                                       | 1582-09-8 | 1.2E-01                                            | c                 | 1.2E+01                                               | c >S              | —                                                             | —                 | —                                                            | —                 | 2.7E-01                                            | c                 | 2.7E+01                                               | c >S              | —                                                             | —                 | —                                                            | —                 | —                                 |
| Trimethylamine                                    | 75-50-3   | —                                                  | —                 | —                                                     | —                 | 1.7E+03                                                       | n                 | 2.2E+02                                                      | n                 | —                                                  | —                 | —                                                     | —                 | 2.3E+03                                                       | n                 | 3.0E+02                                                      | n                 | —                                 |
| Trimethylbenzene, 1,2,3-                          | 526-73-8  | 8.3E-01                                            | n                 | 8.3E+01                                               | n >S              | 5.6E+03                                                       | n >S              | 7.3E+02                                                      | n >S              | 2.5E+00                                            | n                 | 2.5E+02                                               | n >S              | 7.9E+03                                                       | n >S              | 1.0E+03                                                      | n >S              | —                                 |
| Trimethylbenzene, 1,2,4-                          | 95-63-6   | 8.3E-01                                            | n                 | 8.3E+01                                               | n >S              | 4.9E+03                                                       | n >S              | 6.3E+02                                                      | n >S              | 2.5E+00                                            | n                 | 2.5E+02                                               | n >S              | 6.8E+03                                                       | n >S              | 8.8E+02                                                      | n >S              | —                                 |
| Trimethylbenzene, 1,3,5-                          | 108-67-8  | 8.3E-01                                            | n                 | 8.3E+01                                               | n >S              | 3.8E+03                                                       | n >S              | 4.9E+02                                                      | n >S              | 2.5E+00                                            | n                 | 2.5E+02                                               | n >S              | 5.3E+03                                                       | n >S              | 6.8E+02                                                      | n >S              | —                                 |
| Trinitrobenzene, 1,3,5-                           | 99-35-4   | 7.3E-01                                            | n                 | 7.3E+01                                               | n                 | —                                                             | —                 | —                                                            | —                 | 2.2E+00                                            | n                 | 2.2E+02                                               | n                 | —                                                             | —                 | —                                                            | —                 | —                                 |
| Trinitrophenylmethylnitramine (tetryl; nitramine) | 479-45-8  | 4.9E-02                                            | n                 | 4.9E+00                                               | n                 | —                                                             | —                 | —                                                            | —                 | 1.5E-01                                            | n                 | 1.5E+01                                               | n                 | —                                                             | —                 | —                                                            | —                 | —                                 |
| Trinitrotoluene, 2,4,6-                           | 118-96-7  | 1.2E-02                                            | n                 | 1.2E+00                                               | n                 | —                                                             | —                 | —                                                            | —                 | 3.7E-02                                            | n                 | 3.7E+00                                               | n                 | —                                                             | —                 | —                                                            | —                 | —                                 |
| Tungsten (as sodium tungstate dihydride)          | 7440-33-7 | 2.4E-02                                            | n                 | 2.4E+00                                               | n                 | —                                                             | —                 | —                                                            | —                 | 7.3E-02                                            | n                 | 7.3E+00                                               | n                 | —                                                             | —                 | —                                                            | —                 | —                                 |
| Uranium (soluble salts)                           | 7440-61-1 | 3.0E-02                                            | m >S              | 3.0E+00                                               | m >S              | —                                                             | —                 | —                                                            | —                 | 3.0E-02                                            | m >S              | 3.0E+00                                               | m >S              | —                                                             | —                 | —                                                            | —                 | —                                 |
| Valeric acid (pentanoic acid)                     | 109-52-4  | 1.2E+01                                            | n >S              | 1.2E+03                                               | n >S              | 2.0E+04                                                       | n >S              | 2.6E+03                                                      | n >S              | 3.7E+01                                            | n >S              | 3.7E+03                                               | n >S              | 2.8E+04                                                       | n >S              | 3.6E+03                                                      | n >S              | —                                 |
| Vanadium                                          | 7440-62-2 | 4.4E-02                                            | n >S              | 4.4E+00                                               | n >S              | —                                                             | —                 | —                                                            | —                 | 1.3E-01                                            | n >S              | 1.3E+01                                               | n >S              | —                                                             | —                 | —                                                            | —                 | —                                 |
| Vernam                                            | 1929-77-7 | 2.4E-02                                            | n                 | 2.4E+00                                               | n                 | —                                                             | —                 | —                                                            | —                 | 7.3E-02                                            | n                 | 7.3E+00                                               | n                 | —                                                             | —                 | —                                                            | —                 | —                                 |
| Vinyl acetate                                     | 108-05-4  | 2.4E+01                                            | m                 | 2.4E+03                                               | n                 | 1.4E+04                                                       | n                 | 1.8E+03                                                      | n                 | 7.3E-01                                            | n                 | 7.3E+03                                               | n                 | 2.0E+04                                                       | n                 | 2.6E+03                                                      | n                 | —                                 |
| Vinyl chloride                                    | 75-01-4   | 2.0E-03                                            | m                 | 2.0E-01                                               | m                 | 3.8E+00                                                       | c                 | 4.9E-01                                                      | c                 | 2.0E-03                                            | m                 | 2.0E-01                                               | m                 | 6.4E+00                                                       | c                 | 8.3E-01                                                      | c                 | —                                 |
| Vinylcyclohexane                                  | 695-12-5  | 1.2E+01                                            | n >S              | 1.2E+03                                               | n >S              | —                                                             | —                 | —                                                            | —                 | 3.7E+01                                            | n >S              | 3.7E+03                                               | n >S              | —                                                             | —                 | —                                                            | —                 | —                                 |
| Warfarin                                          | 81-81-2   | 7.3E-03                                            | n                 | 7.3E-01                                               | n                 | —                                                             | —                 | —                                                            | —                 | 2.2E-02                                            | n                 | 2.2E+00                                               | n                 | —                                                             | —                 | —                                                            | —                 | —                                 |
| Xylene, m-                                        | 108-38-3  | 1.0E+01                                            | m                 | 1.0E+03                                               | m >S              | 1.1E+04                                                       | n >S              | 1.4E+03                                                      | n >S              | 1.0E+01                                            | m                 | 1.0E+03                                               | m >S              | 1.5E+04                                                       | n >S              | 1.9E+03                                                      | n >S              | —                                 |
| Xylene, o-                                        | 95-47-6   | 1.0E+01                                            | m                 | 1.0E+03                                               | m >S              | 7.6E+05                                                       | n >S              | 9.8E+04                                                      | n >S              | 1.0E+01                                            | m                 | 1.0E+03                                               | m >S              | 1.0E+06                                                       | n >S              | 1.4E+05                                                      | n >S              | —                                 |
| Xylene, p-                                        | 106-42-3  | 1.0E+01                                            | m                 | 1.0E+03                                               | m >S              | 9.4E+03                                                       | n >S              | 1.2E+03                                                      | n >S              | 1.0E+01                                            | m                 | 1.0E+03                                               | m >S              | 1.3E+04                                                       | n >S              | 1.7E+03                                                      | n >S              | —                                 |
| Xylenes                                           | 1330-20-7 | 1.0E+01                                            | m                 | 1.0E+03                                               | m >S              | 1.0E+04                                                       | n >S              | 1.3E+03                                                      | n >S              | 1.0E+01                                            | m                 | 1.0E+03                                               | m >S              | 1.4E+04                                                       | n >S              | 1.9E+03                                                      | n >S              | —                                 |
| Zinc                                              | 7440-66-6 | 7.3E+00                                            | n >S              | 7.3E+02                                               | n >S              | —                                                             | —                 | —                                                            | —                 | 2.2E+01                                            | n >S              | 2.2E+03                                               | n >S              | —                                                             | —                 | —                                                            | —                 | 5.0E+00                           |
| 6 C aliphatics (TPH) (>53% n-hexane content)      | NA        | 1.5E+00                                            | n                 | 1.5E+02                                               | n >S              | 1.1E+02                                                       | n >S              | 1.4E+01                                                      | n                 | 4.4E+00                                            | n                 | 4.4E+02                                               | n >S              | 1.5E+02                                                       | n >S              | 1.9E+01                                                      | n                 | —                                 |
| 6 C aliphatics (TPH) (<53% n-hexane content)      | NA        | 1.5E+00                                            | n                 | 1.5E+02                                               | n >S              | 2.9E+03                                                       | n >S              | 3.8E+02                                                      | n >S              | 4.4E+00                                            | n                 | 4.4E+02                                               | n >S              | 4.1E+03                                                       | n >S              | 5.3E+02                                                      | n >S              | —                                 |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)   | NA        | 1.5E+00                                            | n                 | 1.5E+02                                               | n >S              | 7.1E+01                                                       | n >S              | 9.1E+00                                                      | n >S              | 4.4E+00                                            | n                 | 4.4E+02                                               | n >S              | 9.9E+01                                                       | n >S              | 1.3E+01                                                      | n >S              | —                                 |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)   | NA        | 1.5E+00                                            | n                 | 1.5E+02                                               | n >S              | 1.9E+03                                                       | n >S              | 2.5E+02                                                      | n >S              | 4.4E+00                                            | n                 | 4.4E+02                                               | n >S              | 2.7E+03                                                       | n >S              | 3.5E+02                                                      | n >S              | —                                 |
| >8-10 C aliphatics (TPH)                          | NA        | 2.4E+00                                            | n >S              | 2.4E+02                                               | n >S              | 3.3E+01                                                       | n >S              | 4.3E+00                                                      | n >S              | 7.3E+00                                            | n >S              | 7.3E+02                                               | n >S              | 4.6E+01                                                       | n >S              | 6.0E+00                                                      | n >S              | —                                 |
| >10-12 C aliphatics (TPH)                         | NA        | 2.4E+00                                            | n >S              | 2.4E+02                                               | n >S              | 2.2E+01                                                       | n >S              | 2.8E+00                                                      | n >S              | 7.3E+00                                            | n >S              | 7.3E+02                                               | n >S              | 3.1E+01                                                       | n >S              | 4.0E+00                                                      | n >S              | —                                 |

**Table 3**  
**Tier 1 Groundwater PCLs - Residential and Commercial/Industrial<sup>1</sup>**

Last Revised: February 6, 2025

| Chemical of Concern                                                                                                                                                                                                                                                                              | CAS | Residential                                         |                   |                                                        |                   |                                                                |                   |                                                               |                   | Commercial/Industrial                               |                   |                                                        |                   |                                                                |                   |                                                               |                   | Secondary MCL <sup>5</sup> (mg/L) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------|-------------------|--------------------------------------------------------|-------------------|----------------------------------------------------------------|-------------------|---------------------------------------------------------------|-------------------|-----------------------------------------------------|-------------------|--------------------------------------------------------|-------------------|----------------------------------------------------------------|-------------------|---------------------------------------------------------------|-------------------|-----------------------------------|
|                                                                                                                                                                                                                                                                                                  |     | <sup>GW</sup> GW <sub>Ing</sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | <sup>GW</sup> GW <sub>Class3</sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | <sup>Air</sup> GW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | <sup>Air</sup> GW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> | <sup>GW</sup> GW <sub>Ing</sub> <sup>2</sup> (mg/L) | note <sup>4</sup> | <sup>GW</sup> GW <sub>Class3</sub> <sup>3</sup> (mg/L) | note <sup>4</sup> | <sup>Air</sup> GW <sub>Inh-V</sub> 0.5 acre source area (mg/L) | note <sup>4</sup> | <sup>Air</sup> GW <sub>Inh-V</sub> 30 acre source area (mg/L) | note <sup>4</sup> |                                   |
| >12-16 C aliphatics (TPH)                                                                                                                                                                                                                                                                        | NA  | 2.4E+00                                             | n >S              | 2.4E+02                                                | n >S              | 5.1E+00                                                        | n >S              | 6.6E-01                                                       | n >S              | 7.3E+00                                             | n >S              | 7.3E+02                                                | n >S              | 7.1E+00                                                        | n >S              | 9.2E-01                                                       | n >S              | —                                 |
| >16-21 C aliphatics (TPH)                                                                                                                                                                                                                                                                        | NA  | 4.9E+01                                             | n >S              | 4.9E+03                                                | n >S              | —                                                              | —                 | —                                                             | —                 | 1.5E+02                                             | n >S              | 1.5E+04                                                | n >S              | —                                                              | —                 | —                                                             | —                 | —                                 |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                            | NA  | 3.9E+01                                             | n >S              | 3.9E+03                                                | n >S              | —                                                              | —                 | —                                                             | —                 | 1.2E+02                                             | n >S              | 1.2E+04                                                | n >S              | —                                                              | —                 | —                                                             | —                 | —                                 |
| >21-35 C aliphatics (TPH)                                                                                                                                                                                                                                                                        | NA  | 4.9E+01                                             | n >S              | 4.9E+03                                                | n >S              | —                                                              | —                 | —                                                             | —                 | 1.5E+02                                             | n >S              | 1.5E+04                                                | n >S              | —                                                              | —                 | —                                                             | —                 | —                                 |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                            | NA  | 3.9E+01                                             | n >S              | 3.9E+03                                                | n >S              | —                                                              | —                 | —                                                             | —                 | 1.2E+02                                             | n >S              | 1.2E+04                                                | n >S              | —                                                              | —                 | —                                                             | —                 | —                                 |
| >7-8 C aromatics (TPH)                                                                                                                                                                                                                                                                           | NA  | 2.4E+00                                             | n                 | 2.4E+02                                                | n                 | 2.9E+04                                                        | n >S              | 3.8E+03                                                       | n >S              | 7.3E+00                                             | n                 | 7.3E+02                                                | n >S              | 4.1E+04                                                        | n >S              | 5.3E+03                                                       | n >S              | —                                 |
| >8-10 C aromatics (TPH)                                                                                                                                                                                                                                                                          | NA  | 9.8E-01                                             | n                 | 9.8E+01                                                | n >S              | 1.8E+03                                                        | n >S              | 2.3E+02                                                       | n >S              | 2.9E+00                                             | n                 | 2.9E+02                                                | n >S              | 2.5E+03                                                        | n >S              | 3.2E+02                                                       | n >S              | —                                 |
| >10-12 C aromatics (TPH)                                                                                                                                                                                                                                                                         | NA  | 9.8E-01                                             | n                 | 9.8E+01                                                | n >S              | 4.3E+03                                                        | n >S              | 5.5E+02                                                       | n >S              | 2.9E+00                                             | n                 | 2.9E+02                                                | n >S              | 6.0E+03                                                        | n >S              | 7.7E+02                                                       | n >S              | —                                 |
| >12-16 C aromatics (TPH)                                                                                                                                                                                                                                                                         | NA  | 9.8E-01                                             | n                 | 9.8E+01                                                | n >S              | 7.5E+03                                                        | n >S              | 9.7E+02                                                       | n >S              | 2.9E+00                                             | n                 | 2.9E+02                                                | n >S              | 1.0E+04                                                        | n >S              | 1.4E+03                                                       | n >S              | —                                 |
| >16-21 C aromatics (TPH)                                                                                                                                                                                                                                                                         | NA  | 7.3E-01                                             | n >S              | 7.3E+01                                                | n >S              | —                                                              | —                 | —                                                             | —                 | 2.2E+00                                             | n >S              | 2.2E+02                                                | n >S              | —                                                              | —                 | —                                                             | —                 | —                                 |
| >21-35 C aromatics (TPH)                                                                                                                                                                                                                                                                         | NA  | 7.3E-01                                             | n >S              | 7.3E+01                                                | n >S              | —                                                              | —                 | —                                                             | —                 | 2.2E+00                                             | n >S              | 2.2E+02                                                | n >S              | —                                                              | —                 | —                                                             | —                 | —                                 |
| Transformer Mineral Oil                                                                                                                                                                                                                                                                          | NA  | 1.3E+01                                             | n >S              | 1.3E+03                                                | n >S              | 5.6E+01                                                        | n                 | 7.3E+00                                                       | n                 | 4.0E+01                                             | n >S              | 4.0E+03                                                | n >S              | 7.9E+01                                                        | n                 | 1.0E+01                                                       | n                 | —                                 |
| <b>Footnotes</b>                                                                                                                                                                                                                                                                                 |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| <b>1</b> In accordance with §350.72(b), when establishing Tier 1 PCLs for individual COCs for each of the individual and combined human health exposure pathways, the person must evaluate whether the PCLs need to be adjusted to lower concentrations to meet the cumulative carcinogenic      |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| <b>2</b> based on primary MCLs when available                                                                                                                                                                                                                                                    |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| <b>3</b> 100 x <sup>GW</sup> GW <sub>Ing</sub>                                                                                                                                                                                                                                                   |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| <b>4</b> c = carcinogenic; n = noncarcinogenic; m = primary MCL-based; e = EPA Action Level-based; > S = solubility limit exceeded during calculation                                                                                                                                            |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| <b>5</b> The Secondary MCL values for ammonia and MTBE are based on taste and odor.                                                                                                                                                                                                              |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| <b>6</b> This chemical is one of four chemicals that make up total trihalomethanes (TTHMs). USEPA has established an MCL for TTHMs of 0.08 mg/L, so neither the individual concentration for any of these four chemicals can exceed the MCL, nor the total additive concentration of these four  |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| <b>7</b> Dibenz-a,h-anthracene does not have an MCL. However, the relative potency factor for dibenz-a,h-anthracene is equal to the potency factor for benzo-a-pyrene and is treated like benzo-a-pyrene for groundwater pathways.                                                               |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| <b>8</b> Persons must use the value provided in the "Secondary MCL" column of this table as the <sup>GW</sup> GW <sub>Ing</sub> PCL for MTBE if the conditions described in §350.74(f)(3) exist.                                                                                                 |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| <b>9</b> Please see the note on nitrate/nitrite in the "List of Updates" spreadsheet for March 31, 2017.                                                                                                                                                                                         |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| <b>*</b> These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| NA = not applicable                                                                                                                                                                                                                                                                              |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |
| All values capped at 1E+06                                                                                                                                                                                                                                                                       |     |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                                     |                   |                                                        |                   |                                                                |                   |                                                               |                   |                                   |

This table shows the protective groundwater concentrations for residential and commercial/industrial land with 0.5 acre and 30 acre source areas

end of worksheet

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS        | TotSoil <sub>Comb</sub><br>(includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|------------------------------------------|------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                          |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                                                         | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Acenaphthene                             | 83-32-9    | —                                                                                                       | 3.0E+03                                            | —                                              | 3.0E+03                                           |
| Acenaphthylene                           | 208-96-8   | —                                                                                                       | 3.8E+03                                            | —                                              | 3.8E+03                                           |
| Acetaldehyde                             | 75-07-0    | 1.7E+02                                                                                                 | 1.4E+02                                            | 8.7E+01                                        | 7.3E+01                                           |
| Acetate, 2-ethoxyethanol                 | 111-15-9   | —                                                                                                       | 3.5E+03                                            | —                                              | 2.3E+03                                           |
| Acetate, isoamyl                         | 123-92-2   | —                                                                                                       | 5.9E+03                                            | —                                              | 5.9E+03                                           |
| Acetate, isobutyl                        | 110-19-0   | —                                                                                                       | 3.9E+03                                            | —                                              | 3.9E+03                                           |
| Acetate, sec-butyl                       | 105-46-4   | —                                                                                                       | 3.9E+03                                            | —                                              | 3.9E+03                                           |
| Acetic acid*                             | 64-19-7    | —                                                                                                       | —                                                  | —                                              | —                                                 |
| Acetone (2-propanone)                    | 67-64-1    | —                                                                                                       | 6.6E+04                                            | —                                              | 5.9E+04                                           |
| Acetone cyanohydrin                      | 75-86-5    | —                                                                                                       | 1.9E+02                                            | —                                              | 1.8E+02                                           |
| Acetonitrile                             | 75-05-8    | —                                                                                                       | 8.7E+02                                            | —                                              | 5.3E+02                                           |
| Acetophenone                             | 98-86-2    | —                                                                                                       | 6.7E+03                                            | —                                              | 6.7E+03                                           |
| Acetylaminofluorene, 2-                  | 53-96-3    | 1.2E+00                                                                                                 | —                                                  | 1.1E+00                                        | —                                                 |
| Acifluorfen, sodium                      | 62476-59-9 | —                                                                                                       | 8.7E+02                                            | —                                              | 8.7E+02                                           |
| Acridine                                 | 260-94-6   | —                                                                                                       | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Acrolein                                 | 107-02-8   | —                                                                                                       | 3.2E+01                                            | —                                              | 2.7E+01                                           |
| Acrylamide                               | 79-06-1    | 7.0E+00                                                                                                 | 1.1E+02                                            | 5.7E+00                                        | 9.8E+01                                           |
| Acrylic acid                             | 79-10-7    | —                                                                                                       | 1.2E+02                                            | —                                              | 6.2E+01                                           |
| Acrylonitrile                            | 107-13-1   | 3.6E+00                                                                                                 | 2.2E+01                                            | 2.2E+00                                        | 1.3E+01                                           |
| Adipic acid (hexanedioic acid)           | 124-04-9   | —                                                                                                       | 1.3E+05                                            | —                                              | 1.3E+05                                           |
| Alachlor                                 | 15972-60-8 | 5.9E+01                                                                                                 | 6.7E+02                                            | 5.9E+01                                        | 6.7E+02                                           |
| Aldicarb                                 | 116-06-3   | —                                                                                                       | 6.7E+01                                            | —                                              | 6.7E+01                                           |
| Aldicarb sulfone                         | 1646-88-4  | —                                                                                                       | 6.7E+01                                            | —                                              | 6.7E+01                                           |
| Aldrin                                   | 309-00-2   | 5.0E-02                                                                                                 | 5.9E-01                                            | 5.0E-02                                        | 5.9E-01                                           |
| Allyl alcohol                            | 107-18-6   | —                                                                                                       | 5.6E+00                                            | —                                              | 2.9E+00                                           |
| Allyl chloride                           | 107-05-1   | —                                                                                                       | 1.5E+01                                            | —                                              | 7.8E+00                                           |
| Aluminum                                 | 7429-90-5  | —                                                                                                       | 6.5E+04                                            | —                                              | 6.4E+04                                           |
| Ametryn                                  | 834-12-8   | —                                                                                                       | 6.0E+02                                            | —                                              | 6.0E+02                                           |
| Amino-2,6-dinitrotoluene, 4-             | 19406-51-0 | 1.6E+02                                                                                                 | 3.3E+01                                            | 1.6E+02                                        | 3.3E+01                                           |
| Amino-4,6-dinitrotoluene, 2-             | 35572-78-2 | 1.6E+02                                                                                                 | 3.3E+01                                            | 1.6E+02                                        | 3.3E+01                                           |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine) | 92-67-1    | 7.7E-01                                                                                                 | —                                                  | 7.7E-01                                        | —                                                 |
| Aminopyridine, 4-                        | 504-24-5   | —                                                                                                       | 1.3E+00                                            | —                                              | 1.3E+00                                           |
| Ammonia                                  | 7664-41-7  | —                                                                                                       | 4.9E+03                                            | —                                              | 2.5E+03                                           |
| Ammonium polyphosphate*                  | 6833-79-9  | —                                                                                                       | —                                                  | —                                              | —                                                 |
| Ammonium salts*                          | AMMONIUM   | —                                                                                                       | —                                                  | —                                              | —                                                 |
| Aniline                                  | 62-53-3    | 8.2E+02                                                                                                 | 1.0E+02                                            | 8.2E+02                                        | 5.9E+01                                           |
| Anthracene                               | 120-12-7   | —                                                                                                       | 1.8E+04                                            | —                                              | 1.8E+04                                           |
| Anthraquinone, 9,10-                     | 84-65-1    | 1.2E+02                                                                                                 | 1.3E+03                                            | 1.2E+02                                        | 1.3E+03                                           |
| Antimony                                 | 7440-36-0  | —                                                                                                       | 1.5E+01                                            | —                                              | 1.5E+01                                           |
| Aramite                                  | 140-57-8   | 1.1E+02                                                                                                 | 2.4E+03                                            | 1.1E+02                                        | 2.4E+03                                           |
| Arsenic                                  | 7440-38-2  | 3.4E+01                                                                                                 | 2.4E+01                                            | 3.4E+01                                        | 2.4E+01                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|-----------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                               |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                               |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Arsine                                        | 7784-42-1  | —                                                                            | 7.7E-01                                            | —                                              | 3.9E-01                                           |
| Atrazine                                      | 1912-24-9  | 2.1E+01                                                                      | 2.3E+03                                            | 2.1E+01                                        | 2.3E+03                                           |
| Azinphos-methyl (guthion)                     | 86-50-0    | —                                                                            | 1.0E+02                                            | —                                              | 1.0E+02                                           |
| Azobenzene                                    | 103-33-3   | 3.7E+01                                                                      | —                                                  | 3.6E+01                                        | —                                                 |
| Barium                                        | 7440-39-3  | —                                                                            | 8.1E+03                                            | —                                              | 8.1E+03                                           |
| Bayleton                                      | 43121-43-3 | —                                                                            | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Benefin (benfluralin)                         | 1861-40-1  | —                                                                            | 1.9E+04                                            | —                                              | 1.9E+04                                           |
| Benomyl                                       | 17804-35-2 | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Benz-a-anthracene                             | 56-55-3    | 4.1E+01                                                                      | —                                                  | 4.1E+01                                        | —                                                 |
| Benzaldehyde                                  | 100-52-7   | —                                                                            | 8.2E+03                                            | —                                              | 8.2E+03                                           |
| Benzene                                       | 71-43-2    | 1.2E+02                                                                      | 3.0E+02                                            | 6.9E+01                                        | 2.9E+02                                           |
| Benzenedicarbonitrile, 1,3-                   | 626-17-5   | —                                                                            | 4.0E+02                                            | —                                              | 4.0E+02                                           |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | —                                                                            | 2.7E+03                                            | —                                              | 2.6E+03                                           |
| Benzenethiol                                  | 108-98-5   | —                                                                            | 8.2E+01                                            | —                                              | 8.2E+01                                           |
| Benzidine                                     | 92-87-5    | 1.5E-02                                                                      | 2.0E+02                                            | 1.3E-02                                        | 2.0E+02                                           |
| Benzo-a-pyrene                                | 50-32-8    | 4.1E+00                                                                      | 1.4E+01                                            | 4.1E+00                                        | 1.2E+01                                           |
| Benzo-b-fluoranthene                          | 205-99-2   | 4.2E+01                                                                      | —                                                  | 4.1E+01                                        | —                                                 |
| Benzo-e-pyrene                                | 192-97-2   | —                                                                            | 1.8E+03                                            | —                                              | 1.8E+03                                           |
| Benzo-g,h,i-perylene                          | 191-24-2   | —                                                                            | 1.8E+03                                            | —                                              | 1.8E+03                                           |
| Benzoic acid                                  | 65-85-0    | —                                                                            | 2.7E+05                                            | —                                              | 2.7E+05                                           |
| Benzo-j-fluoranthene                          | 205-82-3   | 3.9E+01                                                                      | —                                                  | 3.9E+01                                        | —                                                 |
| Benzo-k-fluoranthene                          | 207-08-9   | 4.2E+02                                                                      | —                                                  | 4.2E+02                                        | —                                                 |
| Benzophenone                                  | 119-61-9   | —                                                                            | 4.5E+02                                            | —                                              | 4.5E+02                                           |
| Benzotrichloride                              | 98-07-7    | 3.6E-01                                                                      | —                                                  | 3.6E-01                                        | —                                                 |
| Benzoyl peroxide                              | 94-36-0    | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Benzyl alcohol                                | 100-51-6   | —                                                                            | 6.7E+03                                            | —                                              | 6.7E+03                                           |
| Benzyl chloride                               | 100-44-7   | 3.6E+01                                                                      | 2.6E+01                                            | 3.6E+01                                        | 1.4E+01                                           |
| Benzyl dichloride                             | 98-87-3    | 2.8E+01                                                                      | 3.9E+01                                            | 2.8E+01                                        | 2.3E+01                                           |
| Beryllium                                     | 7440-41-7  | 9.4E+03                                                                      | 3.6E+01                                            | 4.8E+03                                        | 3.5E+01                                           |
| Biphenyl, 1,1'-                               | 92-52-4    | —                                                                            | 1.2E+04                                            | —                                              | 1.2E+04                                           |
| Biphenyl, 1,1'-, 2-phenoxy-                   | 6738-04-1  | —                                                                            | 3.2E+03                                            | —                                              | 3.2E+03                                           |
| Biquinoline, 2,2'-                            | 119-91-5   | —                                                                            | 1.8E+02                                            | —                                              | 1.8E+02                                           |
| Bis (2-chloroethoxy) methane                  | 111-91-1   | 3.1E+00                                                                      | 2.0E+02                                            | 2.5E+00                                        | 2.0E+02                                           |
| Bis (2-chloroethyl) ether                     | 111-44-4   | 2.2E+00                                                                      | —                                                  | 1.4E+00                                        | —                                                 |
| Bis (2-chloro-1-methylethyl) ether            | 108-60-1   | 5.1E+01                                                                      | 2.7E+03                                            | 4.1E+01                                        | 2.7E+03                                           |
| Bis (2-chloromethyl) ether                    | 542-88-1   | 4.8E-03                                                                      | —                                                  | 2.7E-03                                        | —                                                 |
| Bis (2-ethyl-hexyl) phthalate                 | 117-81-7   | 4.3E+01                                                                      | 2.7E+02                                            | 4.3E+01                                        | 2.7E+02                                           |
| Bismuth                                       | 7440-69-9  | —                                                                            | 3.7E+04                                            | —                                              | 3.7E+04                                           |
| Bisphenol A                                   | 80-05-7    | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Boron                                         | 7440-42-8  | —                                                                            | 1.6E+04                                            | —                                              | 1.6E+04                                           |
| Bromacil                                      | 314-40-9   | —                                                                            | 6.7E+03                                            | —                                              | 6.7E+03                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                        | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|------------------------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                            |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                                            |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Bromo-2-chloroethane, 1-                                   | 107-04-0   | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Bromobenzene                                               | 108-86-1   | —                                                                            | 3.9E+02                                            | —                                              | 2.8E+02                                           |
| Bromodichloromethane                                       | 75-27-4    | 9.8E+01                                                                      | 6.6E+02                                            | 9.8E+01                                        | 6.6E+02                                           |
| Bromoform                                                  | 75-25-2    | 4.0E+02                                                                      | 1.6E+03                                            | 2.8E+02                                        | 1.6E+03                                           |
| Bromomethane                                               | 74-83-9    | —                                                                            | 3.9E+01                                            | —                                              | 2.4E+01                                           |
| Bromophenyl phenylether, 4-                                | 101-55-3   | 2.8E-01                                                                      | —                                                  | 2.7E-01                                        | —                                                 |
| Butadiene, 1,3-                                            | 106-99-0   | 7.2E+02                                                                      | 5.1E+02                                            | 3.7E+02                                        | 2.6E+02                                           |
| Butadiene, 2-methyl-1,3- (isoprene)                        | 78-79-5    | —                                                                            | 4.8E+03                                            | —                                              | 4.7E+03                                           |
| Butanal (butyraldehyde)                                    | 123-72-8   | —                                                                            | 1.2E+03                                            | —                                              | 6.8E+02                                           |
| Butane, 2,3-dimethyl-                                      | 79-29-8    | —                                                                            | 4.8E+03                                            | —                                              | 4.7E+03                                           |
| Butanoic acid (butyric acid)                               | 107-92-6   | —                                                                            | 1.3E+02                                            | —                                              | 6.6E+01                                           |
| Butanol, 2-                                                | 78-92-2    | —                                                                            | 1.5E+05                                            | —                                              | 1.3E+05                                           |
| Butanol, 2-methyl-1-                                       | 137-32-6   | —                                                                            | 8.2E+02                                            | —                                              | 8.2E+02                                           |
| Butanol, 2-methyl-2-                                       | 75-85-4    | —                                                                            | 8.2E+02                                            | —                                              | 8.2E+02                                           |
| Butanol, n-                                                | 71-36-3    | —                                                                            | 8.2E+03                                            | —                                              | 8.2E+03                                           |
| Butene, 1-                                                 | 106-98-9   | —                                                                            | 4.6E+03                                            | —                                              | 4.4E+03                                           |
| Butene, cis-2-                                             | 590-18-1   | —                                                                            | 4.1E+03                                            | —                                              | 3.5E+03                                           |
| Butene, trans-2-                                           | 624-64-6   | —                                                                            | 4.1E+03                                            | —                                              | 3.5E+03                                           |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2   | —                                                                            | 6.5E+03                                            | —                                              | 6.4E+03                                           |
| Butyl acetate                                              | 123-86-4   | —                                                                            | 1.0E+04                                            | —                                              | 9.1E+03                                           |
| Butyl acrylate                                             | 141-32-2   | —                                                                            | 7.4E+02                                            | —                                              | 7.4E+02                                           |
| Butyl benzyl phthalate                                     | 85-68-7    | 1.6E+03                                                                      | 1.0E+04                                            | 1.6E+03                                        | 1.0E+04                                           |
| Butyl ether, n- (dibutyl ether)                            | 142-96-1   | —                                                                            | 8.2E+03                                            | —                                              | 8.2E+03                                           |
| Butyl methacrylate                                         | 97-88-1    | —                                                                            | 3.4E+03                                            | —                                              | 3.4E+03                                           |
| Butylate                                                   | 2008-41-5  | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Butylbenzene, n-                                           | 104-51-8   | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Butylbenzene, sec-                                         | 135-98-8   | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Butylbenzene, tert-                                        | 98-06-6    | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Cacodylic acid                                             | 75-60-5    | —                                                                            | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Cadmium                                                    | 7440-43-9  | 4.6E+04                                                                      | 5.2E+01                                            | 2.4E+04                                        | 5.1E+01                                           |
| Calcium*                                                   | 7440-70-2  | —                                                                            | —                                                  | —                                              | —                                                 |
| Caprolactam                                                | 105-60-2   | —                                                                            | 3.3E+04                                            | —                                              | 3.3E+04                                           |
| Captan                                                     | 133-06-2   | 1.3E+03                                                                      | 8.7E+03                                            | 1.3E+03                                        | 8.7E+03                                           |
| Carbaryl                                                   | 63-25-2    | —                                                                            | 6.7E+03                                            | —                                              | 6.7E+03                                           |
| Carbazole                                                  | 86-74-8    | 2.3E+02                                                                      | —                                                  | 2.3E+02                                        | —                                                 |
| Carbofuran                                                 | 1563-66-2  | —                                                                            | 3.3E+02                                            | —                                              | 3.3E+02                                           |
| Carbon disulfide                                           | 75-15-0    | —                                                                            | 4.6E+03                                            | —                                              | 3.3E+03                                           |
| Carbon tetrachloride                                       | 56-23-5    | 4.6E+01                                                                      | 2.9E+02                                            | 3.2E+01                                        | 2.6E+02                                           |
| Carbophenothion                                            | 786-19-6   | —                                                                            | 8.2E+02                                            | —                                              | 8.2E+02                                           |
| Carbosulfan                                                | 55285-14-8 | —                                                                            | 4.3E+02                                            | —                                              | 4.3E+02                                           |
| Carboxin                                                   | 5234-68-4  | —                                                                            | 6.7E+03                                            | —                                              | 6.7E+03                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|-------------------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                       |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                                       |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Chloral                                               | 75-87-6    | —                                                                            | 8.2E+03                                            | —                                              | 8.2E+03                                           |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)    | 302-17-0   | —                                                                            | 6.7E+03                                            | —                                              | 6.7E+03                                           |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid) | 133-90-4   | —                                                                            | 1.0E+03                                            | —                                              | 1.0E+03                                           |
| Chlordane (technical)                                 | 12789-03-6 | 6.0E+00                                                                      | 2.0E+01                                            | 5.9E+00                                        | 2.0E+01                                           |
| Chlordane, cis- (alpha chlordane)                     | 5103-71-9  | 1.3E+01                                                                      | 3.2E+01                                            | 1.3E+01                                        | 3.2E+01                                           |
| Chlordane, trans- (gamma chordane)                    | 5103-74-2  | 7.4E+00                                                                      | 2.3E+01                                            | 7.3E+00                                        | 2.3E+01                                           |
| Chlorfenvinphos                                       | 470-90-6   | —                                                                            | 1.4E+01                                            | —                                              | 9.6E+00                                           |
| Chloride*                                             | 16887-00-6 | —                                                                            | —                                                  | —                                              | —                                                 |
| Chlorine                                              | 7782-50-5  | —                                                                            | 1.3E+02                                            | —                                              | 6.8E+01                                           |
| Chloro-1,3-butadiene, 2-                              | 126-99-8   | 1.2E+00                                                                      | 3.1E+02                                            | 6.1E-01                                        | 1.6E+02                                           |
| Chloro-2-propanol, 1-                                 | 127-00-4   | —                                                                            | 1.6E+03                                            | —                                              | 1.6E+03                                           |
| Chloro-3-methylphenol, 4-                             | 59-50-7    | —                                                                            | 3.3E+02                                            | —                                              | 3.3E+02                                           |
| Chloroaniline, p-                                     | 106-47-8   | 2.3E+01                                                                      | 2.7E+02                                            | 2.3E+01                                        | 2.7E+02                                           |
| Chlorobenzene                                         | 108-90-7   | —                                                                            | 5.2E+02                                            | —                                              | 3.2E+02                                           |
| Chlorobenzilate                                       | 510-15-6   | 1.7E+01                                                                      | 1.3E+03                                            | 1.6E+01                                        | 1.3E+03                                           |
| Chlorobromomethane (bromochloromethane)               | 74-97-5    | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Chlorodifluoromethane                                 | 75-45-6    | —                                                                            | 7.7E+05                                            | —                                              | 3.9E+05                                           |
| Chloroethane (ethyl chloride)                         | 75-00-3    | —                                                                            | 2.7E+04                                            | —                                              | 2.3E+04                                           |
| Chloroethanol, 2-                                     | 107-07-3   | —                                                                            | 1.6E+03                                            | —                                              | 1.6E+03                                           |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether)     | 110-75-8   | 5.5E+00                                                                      | 4.5E+00                                            | 5.5E+00                                        | 2.3E+00                                           |
| Chloroform                                            | 67-66-3    | 1.6E+01                                                                      | 5.3E+02                                            | 8.0E+00                                        | 4.0E+02                                           |
| Chlorohexane, 1-                                      | 544-10-5   | —                                                                            | 2.7E+03                                            | —                                              | 2.3E+03                                           |
| Chloromethane (methyl chloride)                       | 74-87-3    | 1.4E+02                                                                      | 2.4E+02                                            | 8.4E+01                                        | 2.1E+02                                           |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-)     | 90-13-1    | —                                                                            | 4.6E+03                                            | —                                              | 4.6E+03                                           |
| Chloronaphthalene, 2- (chloronaphthalene, beta)       | 91-58-7    | —                                                                            | 5.0E+03                                            | —                                              | 5.0E+03                                           |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)      | 100-00-5   | 7.5E+02                                                                      | 3.2E+01                                            | 7.5E+02                                        | 2.2E+01                                           |
| Chlorophenol, 2-                                      | 95-57-8    | —                                                                            | 4.1E+02                                            | —                                              | 4.1E+02                                           |
| Chlorophenol, 3-                                      | 108-43-0   | —                                                                            | 3.3E+02                                            | —                                              | 3.3E+02                                           |
| Chlorophenol, 4-                                      | 106-48-9   | —                                                                            | 3.3E+02                                            | —                                              | 3.3E+02                                           |
| Chlorophenyl phenylether, 4-                          | 7005-72-3  | 1.6E-01                                                                      | —                                                  | 1.5E-01                                        | —                                                 |
| Chloropropane, 2-                                     | 75-29-6    | —                                                                            | 9.4E+02                                            | —                                              | 6.0E+02                                           |
| Chlorothalonil                                        | 1897-45-6  | 4.3E+02                                                                      | 1.0E+03                                            | 4.3E+02                                        | 1.0E+03                                           |
| Chlorotoluene, o- (2-chlorotoluene)                   | 95-49-8    | —                                                                            | 1.2E+03                                            | —                                              | 1.1E+03                                           |
| Chlorotoluene, p- (4-chlorotoluene)                   | 106-43-4   | —                                                                            | 1.6E+03                                            | —                                              | 1.6E+03                                           |
| Chlorpyrifos                                          | 2921-88-2  | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Chromium (III)                                        | 16065-83-1 | —                                                                            | 3.3E+04                                            | —                                              | 2.7E+04                                           |
| Chromium (total)                                      | 7440-47-3  | —                                                                            | 3.3E+04                                            | —                                              | 2.7E+04                                           |
| Chromium (VI)                                         | 18540-29-9 | 9.8E+03                                                                      | 1.2E+02                                            | 5.1E+03                                        | 1.2E+02                                           |
| Chrysene                                              | 218-01-9   | 4.1E+03                                                                      | —                                                  | 4.1E+03                                        | —                                                 |
| Cobalt                                                | 7440-48-4  | 3.8E+03                                                                      | 6.8E+02                                            | 1.9E+03                                        | 6.8E+02                                           |
| Copolymer acrylamide                                  | 69418-26-4 | —                                                                            | 1.3E+01                                            | —                                              | 1.3E+01                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|----------------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                    |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                                    |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Copper                                             | 7440-50-8  | —                                                                            | 1.3E+03                                            | —                                              | 1.3E+03                                           |
| Coronene                                           | 191-07-1   | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Coumaphos                                          | 56-72-4    | —                                                                            | 4.3E+02                                            | —                                              | 4.3E+02                                           |
| Cresol                                             | 1319-77-3  | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Cresol, m- (3-methylphenol)                        | 108-39-4   | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Cresol, o- (2-methylphenol)                        | 95-48-7    | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Cresol, p- (4-methylphenol)                        | 106-44-5   | —                                                                            | 3.3E+02                                            | —                                              | 3.3E+02                                           |
| Crotonaldehyde                                     | 123-73-9   | 3.2E+00                                                                      | 8.2E+01                                            | 3.2E+00                                        | 8.2E+01                                           |
| Cumene (isopropylbenzene)                          | 98-82-8    | —                                                                            | 4.3E+03                                            | —                                              | 3.0E+03                                           |
| Cyanazine                                          | 21725-46-2 | 5.6E+00                                                                      | 1.3E+02                                            | 5.6E+00                                        | 1.3E+02                                           |
| Cyanide                                            | 57-12-5    | —                                                                            | 4.5E+01                                            | —                                              | 4.3E+01                                           |
| Cyanogen                                           | 460-19-5   | —                                                                            | 1.1E+01                                            | —                                              | 5.9E+00                                           |
| Cycloate                                           | 1134-23-2  | —                                                                            | 3.7E+03                                            | —                                              | 3.7E+03                                           |
| Cyclohexane                                        | 110-82-7   | —                                                                            | 7.5E+04                                            | —                                              | 4.2E+04                                           |
| Cyclohexanol                                       | 108-93-0   | —                                                                            | 3.3E+05                                            | —                                              | 3.3E+05                                           |
| Cyclohexanone                                      | 108-94-1   | —                                                                            | 3.2E+04                                            | —                                              | 1.7E+04                                           |
| Cyclohexene, 1-methanol-3-                         | 1679-51-2  | —                                                                            | 1.3E+03                                            | —                                              | 1.3E+03                                           |
| Cyclohexene, 4-vinyl-1-                            | 100-40-3   | —                                                                            | 1.3E+03                                            | —                                              | 1.1E+03                                           |
| Cyclopentane                                       | 287-92-3   | —                                                                            | 4.8E+03                                            | —                                              | 4.8E+03                                           |
| Cyclopentane, methyl-                              | 96-37-7    | —                                                                            | 5.3E+03                                            | —                                              | 4.0E+03                                           |
| Cyclopentene                                       | 142-29-0   | —                                                                            | 4.1E+05                                            | —                                              | 4.1E+05                                           |
| Cyclotetramethylenetetranitramine (HMX)            | 2691-41-0  | —                                                                            | 1.6E+03                                            | —                                              | 1.6E+03                                           |
| Cyclotrimethylenetrinitramine (RDX)                | 121-82-4   | 5.9E+01                                                                      | 2.7E+02                                            | 5.9E+01                                        | 2.7E+02                                           |
| Cymene (isopropyltoluene)                          | 99-87-6    | —                                                                            | 8.2E+03                                            | —                                              | 8.2E+03                                           |
| Cymoxanil                                          | 57966-95-7 | —                                                                            | 8.7E+02                                            | —                                              | 8.7E+02                                           |
| Dacthal (DCPA)                                     | 1861-32-1  | —                                                                            | 6.2E+02                                            | —                                              | 6.2E+02                                           |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)  | 75-99-0    | —                                                                            | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| DDD                                                | 72-54-8    | 1.4E+01                                                                      | —                                                  | 1.4E+01                                        | —                                                 |
| DDE                                                | 72-55-9    | 1.0E+01                                                                      | —                                                  | 1.0E+01                                        | —                                                 |
| DDT                                                | 50-29-3    | 5.4E+00                                                                      | 1.9E+01                                            | 5.4E+00                                        | 1.9E+01                                           |
| Demeton                                            | 8065-48-3  | —                                                                            | 2.7E+00                                            | —                                              | 2.7E+00                                           |
| Desethylatrazine                                   | 6190-65-4  | —                                                                            | 2.3E+03                                            | —                                              | 2.3E+03                                           |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone) | 123-42-2   | —                                                                            | 2.7E+03                                            | —                                              | 2.7E+03                                           |
| Diallate                                           | 2303-16-4  | 3.8E+01                                                                      | —                                                  | 3.8E+01                                        | —                                                 |
| Diazinon                                           | 333-41-5   | —                                                                            | 3.1E+01                                            | —                                              | 2.1E+01                                           |
| Dibenz(a,h)acridine                                | 226-36-8   | 3.7E+00                                                                      | —                                                  | 3.7E+00                                        | —                                                 |
| Dibenz(a,j)acridine                                | 224-42-0   | 5.8E+00                                                                      | —                                                  | 5.8E+00                                        | —                                                 |
| Dibenz-a,h-anthracene                              | 53-70-3    | 4.0E+00                                                                      | —                                                  | 4.0E+00                                        | —                                                 |
| Dibenzo(a,e)pyrene                                 | 192-65-4   | 6.1E-01                                                                      | —                                                  | 6.1E-01                                        | —                                                 |
| Dibenzo(a,h)pyrene                                 | 189-64-0   | 6.1E-02                                                                      | —                                                  | 6.1E-02                                        | —                                                 |
| Dibenzo(a,i)pyrene                                 | 189-55-9   | 6.1E-02                                                                      | —                                                  | 6.1E-02                                        | —                                                 |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|-------------------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                       |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                                       |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Dibenzofuran                                          | 132-64-9   | —                                                                            | 2.7E+02                                            | —                                              | 2.7E+02                                           |
| Dibenzothiophene                                      | 132-65-0   | —                                                                            | 1.9E+02                                            | —                                              | 1.9E+02                                           |
| Dibromo-3-chloropropane, 1,2-                         | 96-12-8    | 1.5E-01                                                                      | 5.0E+00                                            | 8.0E-02                                        | 3.2E+00                                           |
| Dibromochloromethane (chlorodibromomethane)           | 124-48-1   | 7.2E+01                                                                      | 1.6E+03                                            | 7.2E+01                                        | 1.6E+03                                           |
| Dibromofluoromethane                                  | 1868-53-7  | —                                                                            | 1.6E+04                                            | —                                              | 1.6E+04                                           |
| Dicamba                                               | 1918-00-9  | —                                                                            | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Dichlormid                                            | 37764-25-3 | —                                                                            | 1.7E+03                                            | —                                              | 1.7E+03                                           |
| Dichloro-2-butene, 1,4-                               | 764-41-0   | 2.0E-01                                                                      | —                                                  | 1.0E-01                                        | —                                                 |
| Dichloro-2-butene, 1,4- trans                         | 110-57-6   | 2.0E-01                                                                      | —                                                  | 1.1E-01                                        | —                                                 |
| Dichlorobenzene, 1,2-                                 | 95-50-1    | —                                                                            | 7.2E+02                                            | —                                              | 3.9E+02                                           |
| Dichlorobenzene, 1,3-                                 | 541-73-1   | —                                                                            | 1.2E+02                                            | —                                              | 6.2E+01                                           |
| Dichlorobenzene, 1,4-                                 | 106-46-7   | 2.5E+02                                                                      | 1.2E+04                                            | 2.5E+02                                        | 6.1E+03                                           |
| Dichlorobenzidine, 3,3-                               | 91-94-1    | 1.0E+01                                                                      | —                                                  | 1.0E+01                                        | —                                                 |
| Dichlorobutane, 2,3-                                  | 7581-97-7  | —                                                                            | 9.5E+01                                            | —                                              | 5.2E+01                                           |
| Dichlorodifluoromethane                               | 75-71-8    | —                                                                            | 1.4E+03                                            | —                                              | 7.5E+02                                           |
| Dichloroethane, 1,1-                                  | 75-34-3    | —                                                                            | 1.1E+04                                            | —                                              | 8.8E+03                                           |
| Dichloroethane, 1,2-                                  | 107-06-2   | 4.1E+01                                                                      | 6.1E+02                                            | 3.0E+01                                        | 3.3E+02                                           |
| Dichloroethylene, 1,1-                                | 75-35-4    | —                                                                            | 2.3E+03                                            | —                                              | 1.6E+03                                           |
| Dichloroethylene, cis-1,2-                            | 156-59-2   | —                                                                            | 1.4E+02                                            | —                                              | 1.2E+02                                           |
| Dichloroethylene, trans-1,2                           | 156-60-5   | —                                                                            | 5.9E+02                                            | —                                              | 3.7E+02                                           |
| Dichlorofluoromethane                                 | 75-43-4    | —                                                                            | 1.6E+04                                            | —                                              | 1.6E+04                                           |
| Dichlorophenol, 2,3-                                  | 576-24-9   | —                                                                            | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Dichlorophenol, 2,4-                                  | 120-83-2   | —                                                                            | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Dichlorophenol, 2,5-                                  | 583-78-8   | —                                                                            | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Dichlorophenol, 2,6-                                  | 87-65-0    | —                                                                            | 6.7E+01                                            | —                                              | 6.7E+01                                           |
| Dichlorophenol, 3,4-                                  | 95-77-2    | —                                                                            | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Dichlorophenol, 3,5-                                  | 591-35-5   | —                                                                            | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)       | 94-82-6    | —                                                                            | 5.3E+02                                            | —                                              | 5.3E+02                                           |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)              | 94-75-7    | —                                                                            | 1.5E+04                                            | —                                              | 1.5E+04                                           |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid) | 120-36-5   | —                                                                            | 6.7E+02                                            | —                                              | 6.7E+02                                           |
| Dichloropropane, 1,2-                                 | 78-87-5    | 1.2E+02                                                                      | 6.1E+01                                            | 9.0E+01                                        | 3.1E+01                                           |
| Dichloropropane, 1,3-                                 | 142-28-9   | 3.6E+01                                                                      | 2.6E+02                                            | 2.6E+01                                        | 1.4E+02                                           |
| Dichloropropane, 2,2-                                 | 594-20-7   | 8.9E+01                                                                      | 6.1E+01                                            | 8.9E+01                                        | 3.1E+01                                           |
| Dichloropropanol, 2,3-                                | 616-23-9   | —                                                                            | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Dichloropropene, 1,1-                                 | 563-58-6   | 3.6E+01                                                                      | 2.7E+02                                            | 2.6E+01                                        | 1.5E+02                                           |
| Dichloropropene, 1,3- (mixed isomers)                 | 542-75-6   | 3.6E+01                                                                      | 2.7E+02                                            | 2.6E+01                                        | 1.5E+02                                           |
| Dichloropropene, cis 1,3-                             | 10061-01-5 | 1.1E+01                                                                      | 8.0E+00                                            | 1.1E+01                                        | 7.8E+00                                           |
| Dichloropropene, trans 1,3-                           | 10061-02-6 | 3.6E+01                                                                      | 2.7E+02                                            | 2.6E+01                                        | 1.5E+02                                           |
| Dichlorvos                                            | 62-73-7    | 1.6E+01                                                                      | 3.3E+01                                            | 1.6E+01                                        | 3.3E+01                                           |
| Dicrotophos (bidrin)                                  | 141-66-2   | —                                                                            | 6.7E+00                                            | —                                              | 6.7E+00                                           |
| Dicyclopentadiene                                     | 77-73-6    | —                                                                            | 6.6E+03                                            | —                                              | 6.6E+03                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                           | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|---------------------------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                               |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                                               |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Dieldrin                                                      | 60-57-1    | 1.5E-01                                                                      | 2.2E+00                                            | 1.5E-01                                        | 2.2E+00                                           |
| Diethanolamine                                                | 111-42-2   | —                                                                            | 3.3E+01                                            | —                                              | 3.3E+01                                           |
| Diethyldithiocarbamate, sodium salt                           | 148-18-5   | 2.2E+01                                                                      | 2.5E+03                                            | 2.2E+01                                        | 2.5E+03                                           |
| Diethyl phthalate                                             | 84-66-2    | —                                                                            | 5.3E+04                                            | —                                              | 5.3E+04                                           |
| Diethylene glycol                                             | 111-46-6   | —                                                                            | 1.3E+05                                            | —                                              | 1.3E+05                                           |
| Diethylene glycol monobutyl ether                             | 112-34-5   | —                                                                            | 2.0E+01                                            | —                                              | 1.0E+01                                           |
| Diethylhexyl adipate                                          | 103-23-1   | 3.9E+03                                                                      | 4.0E+04                                            | 3.9E+03                                        | 4.0E+04                                           |
| Diethylstilbestrol                                            | 56-53-1    | 7.1E-04                                                                      | —                                                  | 7.1E-04                                        | —                                                 |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)                   | 107-39-1   | —                                                                            | 1.9E+03                                            | —                                              | 1.2E+03                                           |
| Diisopropylbenzene, p-                                        | 100-18-5   | —                                                                            | 6.7E+02                                            | —                                              | 6.7E+02                                           |
| Diisopropyl ether (2,2'-oxybis-propane)                       | 108-20-3   | —                                                                            | 4.6E+03                                            | —                                              | 3.3E+03                                           |
| Dimethenamid                                                  | 87674-68-8 | —                                                                            | 1.0E+03                                            | —                                              | 1.0E+03                                           |
| Dimethoate                                                    | 60-51-5    | —                                                                            | 1.3E+01                                            | —                                              | 1.3E+01                                           |
| Dimethoxybenzidine, 3,3'-                                     | 119-90-4   | 3.4E+02                                                                      | —                                                  | 3.4E+02                                        | —                                                 |
| Dimethyl-2-nitrobenzene, 1,3-                                 | 81-20-9    | —                                                                            | 1.3E+02                                            | —                                              | 1.2E+02                                           |
| Dimethyl-3-nitrobenzene, 1,2-                                 | 83-41-0    | —                                                                            | 1.3E+02                                            | —                                              | 1.2E+02                                           |
| Dimethyl-4-nitrobenzene, 1-2-                                 | 99-51-4    | —                                                                            | 1.3E+02                                            | —                                              | 1.2E+02                                           |
| Dimethyl-5-nitrobenzene, 1,3-                                 | 99-12-7    | —                                                                            | 1.3E+02                                            | —                                              | 1.2E+02                                           |
| Dimethylphenethylamine, alpha, alpha-                         | 122-09-8   | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Dimethyl phenol, 2,4-                                         | 105-67-9   | —                                                                            | 1.3E+03                                            | —                                              | 1.3E+03                                           |
| Dimethylaminoazobenzene, p-                                   | 60-11-7    | —                                                                            | 6.4E-01                                            | —                                              | 6.4E-01                                           |
| Dimethylbenz-a-anthracene, 7,12-                              | 57-97-6    | 1.7E-02                                                                      | —                                                  | 1.7E-02                                        | —                                                 |
| Dimethylbenzidine, 3,3'-                                      | 119-93-7   | 4.3E-01                                                                      | —                                                  | 4.3E-01                                        | —                                                 |
| Dimethylformamide, N,N-                                       | 68-12-2    | —                                                                            | 2.3E+03                                            | —                                              | 1.4E+03                                           |
| Dimethylnaphthalene, 1,3-                                     | 575-41-7   | —                                                                            | 2.3E+03                                            | —                                              | 2.3E+03                                           |
| Dimethylphthalate                                             | 131-11-3   | —                                                                            | 5.3E+04                                            | —                                              | 5.3E+04                                           |
| Di-n-butyl phthalate                                          | 84-74-2    | —                                                                            | 6.2E+03                                            | —                                              | 6.2E+03                                           |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)        | 534-52-1   | —                                                                            | 6.7E+00                                            | —                                              | 6.7E+00                                           |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)                   | 99-65-0    | —                                                                            | 6.7E+00                                            | —                                              | 6.7E+00                                           |
| Dinitrobenzene, 1,4-                                          | 100-25-4   | —                                                                            | 6.7E+00                                            | —                                              | 6.7E+00                                           |
| Dinitrophenol, 2,4-                                           | 51-28-5    | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Dinitrophenol, 2,5-                                           | 329-71-5   | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Dinitrotoluene, 2,4-                                          | 121-14-2   | 6.9E+00                                                                      | 1.3E+02                                            | 6.9E+00                                        | 1.3E+02                                           |
| Dinitrotoluene, 2,6-                                          | 606-20-2   | 6.9E+00                                                                      | 6.7E+01                                            | 6.9E+00                                        | 6.7E+01                                           |
| Di-n-octyl phthalate                                          | 117-84-0   | —                                                                            | 6.4E+02                                            | —                                              | 6.4E+02                                           |
| Dinoseb                                                       | 88-85-7    | —                                                                            | 6.7E+01                                            | —                                              | 6.7E+01                                           |
| Dioxane 1,4-                                                  | 123-91-1   | 4.5E+01                                                                      | 1.6E+03                                            | 3.7E+01                                        | 1.2E+03                                           |
| Dioxin (as 2,3,7,8-TCDD toxicity equivalent quotients (TEQs)) | 1746-01-6  | —                                                                            | 5.3E-05                                            | —                                              | 5.3E-05                                           |
| Diphenyl ether                                                | 101-84-8   | —                                                                            | 3.8E+02                                            | —                                              | 3.8E+02                                           |
| Diphenylamine                                                 | 122-39-4   | —                                                                            | 1.7E+03                                            | —                                              | 1.7E+03                                           |
| Diphenylhydrazine, 1,2-                                       | 122-66-7   | 5.6E+00                                                                      | —                                                  | 5.4E+00                                        | —                                                 |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                         | CAS        | TotSoilComb<br>(includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|-------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                             |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                                             | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Dipropylene glycol                                          | 110-98-5   | —                                                                                           | 8.0E+03                                            | —                                              | 8.0E+03                                           |
| Diquat                                                      | 85-00-7    | —                                                                                           | 1.5E+02                                            | —                                              | 1.5E+02                                           |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt) | 142-73-4   | —                                                                                           | 6.7E+02                                            | —                                              | 6.7E+02                                           |
| Disulfoton                                                  | 298-04-4   | —                                                                                           | 2.7E+00                                            | —                                              | 2.7E+00                                           |
| Diuron                                                      | 330-54-1   | —                                                                                           | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Dodecylphenol, 4-                                           | 104-43-8   | —                                                                                           | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Endosulfan                                                  | 115-29-7   | —                                                                                           | 4.0E+02                                            | —                                              | 4.0E+02                                           |
| Endosulfan I                                                | 959-98-8   | —                                                                                           | 9.1E+01                                            | —                                              | 9.1E+01                                           |
| Endosulfan II                                               | 33213-65-9 | —                                                                                           | 2.7E+02                                            | —                                              | 2.7E+02                                           |
| Endosulfan sulfate                                          | 1031-07-8  | —                                                                                           | 3.8E+02                                            | —                                              | 3.8E+02                                           |
| Endothall                                                   | 145-73-3   | —                                                                                           | 1.3E+03                                            | —                                              | 1.3E+03                                           |
| Endrin                                                      | 72-20-8    | —                                                                                           | 9.0E+00                                            | —                                              | 9.0E+00                                           |
| Endrin aldehyde                                             | 7421-93-4  | —                                                                                           | 1.9E+01                                            | —                                              | 1.9E+01                                           |
| Endrin ketone                                               | 53494-70-5 | —                                                                                           | 1.9E+01                                            | —                                              | 1.9E+01                                           |
| Epichlorohydrin                                             | 106-89-8   | 2.8E+02                                                                                     | 2.5E+01                                            | 1.8E+02                                        | 1.3E+01                                           |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate)       | 2104-64-5  | —                                                                                           | 6.7E-01                                            | —                                              | 6.7E-01                                           |
| Esfenvalerate                                               | 66230-04-4 | —                                                                                           | 7.4E+01                                            | —                                              | 7.4E+01                                           |
| Ethalfuralin (sonolan)                                      | 55283-68-6 | 4.7E+01                                                                                     | 2.5E+03                                            | 4.7E+01                                        | 2.5E+03                                           |
| Ethanol                                                     | 64-17-5    | —                                                                                           | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Ethanol, 2-amino-                                           | 141-43-5   | —                                                                                           | 1.1E+02                                            | —                                              | 1.1E+02                                           |
| Ethanol, 2-(2-aminoethoxy)-                                 | 929-06-6   | —                                                                                           | 3.3E+01                                            | —                                              | 3.3E+01                                           |
| Ethanol, 2-(2-ethoxyethoxy)-                                | 111-90-0   | —                                                                                           | 1.3E+05                                            | —                                              | 1.3E+05                                           |
| Ethanol, 2-(methylamino)-                                   | 109-83-1   | —                                                                                           | 9.1E+02                                            | —                                              | 8.1E+02                                           |
| Ethion                                                      | 563-12-2   | —                                                                                           | 2.7E+01                                            | —                                              | 2.7E+01                                           |
| Ethoprop                                                    | 13194-48-4 | 1.7E+02                                                                                     | 6.7E+00                                            | 1.7E+02                                        | 6.7E+00                                           |
| Ethoxy ethanol, 2-                                          | 110-80-5   | —                                                                                           | 5.7E+03                                            | —                                              | 4.7E+03                                           |
| Ethyl acetate                                               | 141-78-6   | —                                                                                           | 3.5E+03                                            | —                                              | 1.8E+03                                           |
| Ethyl acrylate                                              | 140-88-5   | 1.3E+02                                                                                     | 1.5E+02                                            | 1.3E+02                                        | 9.6E+01                                           |
| Ethyl benzene                                               | 100-41-4   | —                                                                                           | 6.4E+03                                            | —                                              | 5.3E+03                                           |
| Ethyl dipropylthiocarbamate, S-                             | 759-94-4   | —                                                                                           | 1.7E+03                                            | —                                              | 1.7E+03                                           |
| Ethyl ether                                                 | 60-29-7    | —                                                                                           | 1.6E+04                                            | —                                              | 1.6E+04                                           |
| Ethyl methacrylate                                          | 97-63-2    | —                                                                                           | 3.6E+03                                            | —                                              | 2.4E+03                                           |
| Ethyl methanesulfonate                                      | 62-50-0    | 3.4E+01                                                                                     | —                                                  | 2.7E+01                                        | —                                                 |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)            | 637-92-3   | —                                                                                           | 8.0E+01                                            | —                                              | 7.9E+01                                           |
| Ethyl-1-hexanol, 2-                                         | 104-76-7   | —                                                                                           | 1.0E+04                                            | —                                              | 1.0E+04                                           |
| Ethyl-2-hexenal, 2-                                         | 645-62-5   | —                                                                                           | 1.2E+04                                            | —                                              | 1.2E+04                                           |
| Ethyl-2-methyl benzene, 1-                                  | 611-14-3   | —                                                                                           | 2.8E+03                                            | —                                              | 2.1E+03                                           |
| Ethyl-4-methyl benzene, 1-                                  | 622-96-8   | —                                                                                           | 2.6E+03                                            | —                                              | 1.9E+03                                           |
| Ethylene*                                                   | 74-85-1    | —                                                                                           | —                                                  | —                                              | —                                                 |
| Ethylene dibromide (dibromoethane, 1,2- )                   | 106-93-4   | 2.5E+00                                                                                     | 5.1E+02                                            | 2.1E+00                                        | 4.0E+02                                           |
| Ethylene glycol                                             | 107-21-1   | —                                                                                           | 1.3E+05                                            | —                                              | 1.3E+05                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|---------------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                   |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                                   |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Ethylene oxide                                    | 75-21-8    | 5.8E+00                                                                      | —                                                  | 5.7E+00                                        | —                                                 |
| Ethylene thiourea                                 | 96-45-7    | 4.3E+01                                                                      | 5.3E+00                                            | 4.3E+01                                        | 5.3E+00                                           |
| Ethylenediamine                                   | 107-15-3   | —                                                                            | 7.4E+03                                            | —                                              | 7.4E+03                                           |
| Ethylenimine                                      | 151-56-4   | 5.5E-02                                                                      | —                                                  | 3.9E-02                                        | —                                                 |
| Ethylhexyl acrylate, 2-                           | 103-11-7   | 9.8E+01                                                                      | —                                                  | 9.8E+01                                        | —                                                 |
| Famphur                                           | 52-85-7    | —                                                                            | 2.0E+00                                            | —                                              | 2.0E+00                                           |
| Fensulfothion                                     | 115-90-2   | —                                                                            | 6.7E+01                                            | —                                              | 6.7E+01                                           |
| Fenthion                                          | 55-38-9    | —                                                                            | 4.7E+00                                            | —                                              | 4.7E+00                                           |
| Fenuron                                           | 101-42-8   | —                                                                            | 4.7E+03                                            | —                                              | 4.7E+03                                           |
| Fluoranthene                                      | 206-44-0   | —                                                                            | 2.3E+03                                            | —                                              | 2.3E+03                                           |
| Fluorene                                          | 86-73-7    | —                                                                            | 2.3E+03                                            | —                                              | 2.3E+03                                           |
| Fluorine (soluble fluoride)                       | 7782-41-4  | —                                                                            | 4.8E+03                                            | —                                              | 4.8E+03                                           |
| Fluorochloridone                                  | 61213-25-0 | —                                                                            | 5.0E+02                                            | —                                              | 5.0E+02                                           |
| Fonofos                                           | 944-22-9   | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Formaldehyde                                      | 50-00-0    | —                                                                            | 9.3E+02                                            | —                                              | 4.9E+02                                           |
| Formic acid                                       | 64-18-6    | —                                                                            | 2.1E+02                                            | —                                              | 1.1E+02                                           |
| Furan                                             | 110-00-9   | —                                                                            | 8.2E+01                                            | —                                              | 8.2E+01                                           |
| Furfural                                          | 98-01-1    | —                                                                            | 2.5E+02                                            | —                                              | 2.5E+02                                           |
| Glycidylaldehyde                                  | 765-34-4   | —                                                                            | 2.7E+01                                            | —                                              | 2.3E+01                                           |
| Glyphosate                                        | 1071-83-6  | —                                                                            | 6.7E+04                                            | —                                              | 6.7E+04                                           |
| Heptachlor                                        | 76-44-8    | 1.3E-01                                                                      | 7.1E+00                                            | 1.3E-01                                        | 7.1E+00                                           |
| Heptachlor epoxide                                | 1024-57-3  | 2.4E-01                                                                      | 5.4E-01                                            | 2.4E-01                                        | 5.4E-01                                           |
| Heptane, n-                                       | 142-82-5   | —                                                                            | 4.7E+03                                            | —                                              | 4.6E+03                                           |
| Heptanoic acid, n-                                | 111-14-8   | —                                                                            | 1.2E+02                                            | —                                              | 6.3E+01                                           |
| Hexachlorobenzene                                 | 118-74-1   | 1.1E+00                                                                      | 2.9E+01                                            | 1.0E+00                                        | 2.9E+01                                           |
| Hexachlorobutadiene                               | 87-68-3    | 2.0E+01                                                                      | 6.7E+01                                            | 1.2E+01                                        | 6.7E+01                                           |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | 2.6E-01                                                                      | 2.7E+02                                            | 2.5E-01                                        | 2.7E+02                                           |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | 9.3E-01                                                                      | —                                                  | 9.2E-01                                        | —                                                 |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | 2.9E+00                                                                      | 2.2E+01                                            | 2.9E+00                                        | 2.2E+01                                           |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | 1.1E+00                                                                      | 9.2E+00                                            | 1.1E+00                                        | 9.2E+00                                           |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | 1.3E+00                                                                      | —                                                  | 1.3E+00                                        | —                                                 |
| Hexachlorocyclopentadiene                         | 77-47-4    | —                                                                            | 1.4E+01                                            | —                                              | 7.2E+00                                           |
| Hexachloroethane                                  | 67-72-1    | 1.2E+02                                                                      | 4.6E+01                                            | 1.2E+02                                        | 4.6E+01                                           |
| Hexachlorophene                                   | 70-30-4    | —                                                                            | 2.0E+01                                            | —                                              | 2.0E+01                                           |
| Hexachloropropylene                               | 1888-71-7  | 1.2E+02                                                                      | 4.6E+01                                            | 1.2E+02                                        | 4.6E+01                                           |
| Hexanal, 2-ethyl-                                 | 123-05-7   | —                                                                            | 1.0E+04                                            | —                                              | 1.0E+04                                           |
| Hexane, n-                                        | 110-54-3   | —                                                                            | 3.3E+03                                            | —                                              | 2.5E+03                                           |
| Hexanediamine, 1,6-                               | 124-09-4   | —                                                                            | 3.3E+02                                            | —                                              | 3.3E+02                                           |
| Hexanedinitrile                                   | 111-69-3   | —                                                                            | 8.5E+01                                            | —                                              | 7.9E+01                                           |
| Hexanediol, 1,6-                                  | 629-11-8   | —                                                                            | 3.0E+05                                            | —                                              | 2.8E+05                                           |
| Hexanoic acid                                     | 142-62-1   | —                                                                            | 1.3E+02                                            | —                                              | 6.9E+01                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | TotSoilComb<br>(includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|----------------------------------------------------|------------|---------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                    |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                                             | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Hexanone, 2-                                       | 591-78-6   | —                                                                                           | 6.9E+02                                            | —                                              | 3.8E+02                                           |
| Hexazinone                                         | 51235-04-2 | —                                                                                           | 2.2E+03                                            | —                                              | 2.2E+03                                           |
| Hexene, 1-                                         | 592-41-6   | —                                                                                           | 1.6E+03                                            | —                                              | 8.4E+02                                           |
| Hexene, cis-2-                                     | 7688-21-3  | —                                                                                           | 1.6E+03                                            | —                                              | 8.4E+02                                           |
| Hexylene glycol (2-methyl-2,4-pentanediol)         | 107-41-5   | —                                                                                           | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Hydrazine                                          | 302-01-2   | 3.8E-01                                                                                     | 2.9E+00                                            | 2.1E-01                                        | 1.5E+00                                           |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)     | 1191-25-9  | —                                                                                           | 1.6E+02                                            | —                                              | 8.1E+01                                           |
| Hydrogen chloride (hydrochloric acid)*             | 7647-01-0  | —                                                                                           | —                                                  | —                                              | —                                                 |
| Hydroquinone                                       | 123-31-9   | 7.8E+01                                                                                     | 2.7E+03                                            | 7.8E+01                                        | 2.7E+03                                           |
| Indene                                             | 95-13-6    | —                                                                                           | 1.0E+02                                            | —                                              | 5.6E+01                                           |
| Indeno-1,2,3-cd-pyrene                             | 193-39-5   | 4.2E+01                                                                                     | —                                                  | 4.2E+01                                        | —                                                 |
| Iron*                                              | 7439-89-6  | —                                                                                           | —                                                  | —                                              | —                                                 |
| Isoamyl alcohol                                    | 123-51-3   | —                                                                                           | 4.1E+02                                            | —                                              | 4.1E+02                                           |
| Isobutyl alcohol                                   | 78-83-1    | —                                                                                           | 2.5E+04                                            | —                                              | 2.5E+04                                           |
| Isobutylene (2-methyl-1-propene)                   | 115-11-7   | —                                                                                           | 3.0E+02                                            | —                                              | 3.0E+02                                           |
| Isobutyric acid (2-methylpropanoic acid)           | 79-31-2    | —                                                                                           | 3.3E+04                                            | —                                              | 3.3E+04                                           |
| Isodecanol                                         | 25339-17-7 | —                                                                                           | 7.1E+01                                            | —                                              | 7.1E+01                                           |
| Isodrin                                            | 465-73-6   | 2.7E-02                                                                                     | 2.0E-01                                            | 2.7E-02                                        | 2.0E-01                                           |
| Isopentane                                         | 78-78-4    | —                                                                                           | 4.8E+03                                            | —                                              | 4.8E+03                                           |
| Isophorone                                         | 78-59-1    | 4.9E+03                                                                                     | 1.3E+04                                            | 4.9E+03                                        | 1.3E+04                                           |
| Isopropyl acetate                                  | 108-21-4   | —                                                                                           | 5.7E+03                                            | —                                              | 5.7E+03                                           |
| Isopropyl alcohol                                  | 67-63-0    | —                                                                                           | 9.1E+03                                            | —                                              | 4.8E+03                                           |
| Isosafrole                                         | 120-58-1   | 1.7E+01                                                                                     | —                                                  | 1.5E+01                                        | —                                                 |
| Kelthane (dicofol)                                 | 115-32-2   | —                                                                                           | 2.7E+02                                            | —                                              | 2.7E+02                                           |
| Kepone (chlordecone)                               | 143-50-0   | 3.6E-01                                                                                     | 1.7E+01                                            | 3.5E-01                                        | 1.7E+01                                           |
| Lead (inorganic)                                   | 7439-92-1  | —                                                                                           | —                                                  | —                                              | —                                                 |
| Leptophos                                          | 21609-90-5 | —                                                                                           | 1.6E-01                                            | —                                              | 1.6E-01                                           |
| Limonene, d-*                                      | 5989-27-5  | —                                                                                           | —                                                  | —                                              | —                                                 |
| Lithium                                            | 7439-93-2  | —                                                                                           | 4.4E+02                                            | —                                              | 4.4E+02                                           |
| Magnesium*                                         | 7439-95-4  | —                                                                                           | —                                                  | —                                              | —                                                 |
| Malathion                                          | 121-75-5   | —                                                                                           | 1.7E+02                                            | —                                              | 9.6E+01                                           |
| Maleic anhydride                                   | 108-31-6   | —                                                                                           | 6.7E+03                                            | —                                              | 6.7E+03                                           |
| Maleic hydrazide                                   | 123-33-1   | —                                                                                           | 3.3E+04                                            | —                                              | 3.3E+04                                           |
| Malononitrile                                      | 109-77-3   | —                                                                                           | 6.7E+00                                            | —                                              | 6.7E+00                                           |
| Mancozeb                                           | 8018-01-7  | —                                                                                           | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Manganese                                          | 7439-96-5  | —                                                                                           | 3.9E+03                                            | —                                              | 3.9E+03                                           |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | —                                                                                           | 3.3E+01                                            | —                                              | 3.3E+01                                           |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | —                                                                                           | 6.7E+01                                            | —                                              | 6.7E+01                                           |
| Mercury (pH = 4.9) <sup>1</sup>                    | 7439-97-6  | —                                                                                           | 3.6E+00                                            | —                                              | 2.1E+00                                           |
| Mercury (pH=6.8) <sup>1</sup>                      | 7439-97-6  | —                                                                                           | 8.3E+00                                            | —                                              | 5.5E+00                                           |
| Merphos                                            | 150-50-5   | —                                                                                           | 2.0E+00                                            | —                                              | 2.0E+00                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|-----------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                               |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                               |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Methacrylic acid (2-methyl-2-propenoic acid)  | 79-41-4    | —                                                                            | 8.2E+02                                            | —                                              | 8.2E+02                                           |
| Methacrylonitrile                             | 126-98-7   | —                                                                            | 5.1E+02                                            | —                                              | 2.8E+02                                           |
| Methanol                                      | 67-56-1    | —                                                                            | 1.1E+05                                            | —                                              | 8.3E+04                                           |
| Methapyriline                                 | 91-80-5    | 1.0E+00                                                                      | —                                                  | 1.0E+00                                        | —                                                 |
| Methomyl                                      | 16752-77-5 | —                                                                            | 1.7E+03                                            | —                                              | 1.7E+03                                           |
| Methoxychlor                                  | 72-43-5    | —                                                                            | 2.7E+02                                            | —                                              | 2.7E+02                                           |
| Methoxyethanol, 2-                            | 109-86-4   | —                                                                            | 2.7E+02                                            | —                                              | 1.5E+02                                           |
| Methyl acetate (acetic acid, methyl ester)    | 79-20-9    | —                                                                            | 8.2E+04                                            | —                                              | 8.2E+04                                           |
| Methyl acrylate                               | 96-33-3    | —                                                                            | 1.1E+02                                            | —                                              | 8.0E+01                                           |
| Methyl amyl ketone (2-heptanone)              | 110-43-0   | —                                                                            | 3.9E+03                                            | —                                              | 3.8E+03                                           |
| Methyl chrysene, 1-                           | 3351-28-8  | 5.8E+02                                                                      | —                                                  | 5.8E+02                                        | —                                                 |
| Methyl chrysene, 2-                           | 3351-32-4  | 5.8E+02                                                                      | —                                                  | 5.8E+02                                        | —                                                 |
| Methyl chrysene, 6-                           | 1705-85-7  | 5.7E+01                                                                      | —                                                  | 5.7E+01                                        | —                                                 |
| Methyl cyclohexane                            | 108-87-2   | —                                                                            | 4.1E+04                                            | —                                              | 2.2E+04                                           |
| Methyl ethyl ketone (2-butanone)              | 78-93-3    | —                                                                            | 4.0E+04                                            | —                                              | 3.3E+04                                           |
| Methyl iodide (iodomethane)                   | 74-88-4    | —                                                                            | 1.1E+02                                            | —                                              | 1.1E+02                                           |
| Methyl isobutyl ketone (4-methyl-2-pentanone) | 108-10-1   | —                                                                            | 5.9E+03                                            | —                                              | 5.4E+03                                           |
| Methyl mercury                                | 22967-92-6 | —                                                                            | 8.0E+00                                            | —                                              | 8.0E+00                                           |
| Methyl methacrylate                           | 80-62-6    | —                                                                            | 9.8E+03                                            | —                                              | 5.3E+03                                           |
| Methyl methanesulfonate                       | 66-27-3    | 3.3E+01                                                                      | —                                                  | 2.6E+01                                        | —                                                 |
| Methyl parathion                              | 298-00-0   | —                                                                            | 1.7E+01                                            | —                                              | 1.7E+01                                           |
| Methyl-1-butene, 2-                           | 563-46-2   | —                                                                            | 4.8E+03                                            | —                                              | 4.7E+03                                           |
| Methyl-1-propanal, 2- (isobutyraldehyde)      | 78-84-2    | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Methyl-2-butene, 2-                           | 513-35-9   | —                                                                            | 4.8E+03                                            | —                                              | 4.7E+03                                           |
| Methyl-2-pentenal, 2-                         | 623-36-9   | 3.2E+00                                                                      | —                                                  | 3.2E+00                                        | —                                                 |
| Methylcholanthrene, 3-                        | 56-49-5    | 1.9E-01                                                                      | —                                                  | 1.9E-01                                        | —                                                 |
| Methylene bromide (dibromomethane)            | 74-95-3    | 8.1E+02                                                                      | 8.1E+01                                            | 8.1E+02                                        | 4.2E+01                                           |
| Methylene chloride (dichloromethane)          | 75-09-2    | 1.1E+04                                                                      | 1.6E+03                                            | 5.9E+03                                        | 1.5E+03                                           |
| Methylene-bis (2-chloroaniline) 4,4'-         | 101-14-4   | 4.6E+01                                                                      | 1.3E+02                                            | 4.5E+01                                        | 1.3E+02                                           |
| Methylmercury hydroxide                       | 1184-57-2  | —                                                                            | 6.7E+00                                            | —                                              | 6.7E+00                                           |
| Methylnaphthalene, 1-                         | 90-12-0    | 1.5E+02                                                                      | 4.4E+03                                            | 1.5E+02                                        | 4.4E+03                                           |
| Methylnaphthalene, 2-                         | 91-57-6    | —                                                                            | 2.5E+02                                            | —                                              | 2.5E+02                                           |
| Methylpyrrolidone, N-                         | 872-50-4   | —                                                                            | 1.3E+03                                            | —                                              | 1.3E+03                                           |
| Methylstyrene, alpha-                         | 98-83-9    | —                                                                            | 2.8E+02                                            | —                                              | 1.8E+02                                           |
| Methyltetrahydrofuran, 2-                     | 96-47-9    | 1.5E+02                                                                      | 1.6E+04                                            | 8.6E+01                                        | 1.6E+04                                           |
| Methyltetrahydropyran, 2-                     | 10141-72-7 | 1.7E+02                                                                      | 1.6E+04                                            | 9.8E+01                                        | 1.6E+04                                           |
| Metolachlor                                   | 51218-45-2 | —                                                                            | 1.0E+04                                            | —                                              | 1.0E+04                                           |
| Metribuzin                                    | 21087-64-9 | —                                                                            | 1.7E+03                                            | —                                              | 1.7E+03                                           |
| Mirex                                         | 2385-85-5  | —                                                                            | 1.3E+01                                            | —                                              | 1.3E+01                                           |
| Molinate                                      | 2212-67-1  | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Molybdenum                                    | 7439-98-7  | —                                                                            | 1.6E+02                                            | —                                              | 1.6E+02                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern            | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|--------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Monocrotophos                  | 2157-98-4  | —                                                                            | 4.0E+01                                            | —                                              | 4.0E+01                                           |
| Morpholine                     | 110-91-8   | —                                                                            | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Morpholine, N-butyl-           | 1005-67-0  | —                                                                            | 1.5E+02                                            | —                                              | 1.5E+02                                           |
| MTBE (methyl tert-butyl ether) | 1634-04-4  | 9.8E+02                                                                      | 8.0E+02                                            | 5.9E+02                                        | 7.9E+02                                           |
| Naled                          | 300-76-5   | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Naphthalene                    | 91-20-3    | —                                                                            | 2.2E+02                                            | —                                              | 1.2E+02                                           |
| Naphthoquinone, 1,4-           | 130-15-4   | —                                                                            | 4.7E+02                                            | —                                              | 4.7E+02                                           |
| Naphthylamine, 1-              | 134-32-7   | —                                                                            | 1.3E+03                                            | —                                              | 1.3E+03                                           |
| Naphthylamine, 2-              | 91-59-8    | 2.6E+00                                                                      | —                                                  | 2.6E+00                                        | —                                                 |
| Napropamide                    | 15299-99-7 | —                                                                            | 6.7E+03                                            | —                                              | 6.7E+03                                           |
| Neopentyl glycol               | 126-30-7   | —                                                                            | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Nickel and compounds           | 7440-02-0  | 1.3E+05                                                                      | 8.4E+02                                            | 6.8E+04                                        | 8.4E+02                                           |
| Nitrate-N                      | 14797-55-8 | —                                                                            | 1.3E+05                                            | —                                              | 1.3E+05                                           |
| Nitrite-N                      | 14797-65-0 | —                                                                            | 8.0E+03                                            | —                                              | 8.0E+03                                           |
| Nitroaniline, 2-               | 88-74-4    | —                                                                            | 1.4E+01                                            | —                                              | 1.1E+01                                           |
| Nitroaniline, 3-               | 99-09-2    | 1.2E+02                                                                      | 1.5E+01                                            | 1.2E+02                                        | 1.2E+01                                           |
| Nitroaniline, 4-               | 100-01-6   | 2.3E+02                                                                      | 2.2E+02                                            | 2.3E+02                                        | 1.9E+02                                           |
| Nitrobenzene                   | 98-95-3    | 6.6E+01                                                                      | 6.1E+01                                            | 3.4E+01                                        | 4.0E+01                                           |
| Nitroglycerin                  | 55-63-0    | 2.8E+02                                                                      | 6.7E+00                                            | 2.8E+02                                        | 6.7E+00                                           |
| Nitrophenol, 2-                | 88-75-5    | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Nitrophenol, 3-                | 554-84-7   | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Nitrophenol, 4-                | 100-02-7   | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Nitropropane, 2-               | 79-46-9    | 6.2E-01                                                                      | 1.1E+01                                            | 3.2E-01                                        | 1.1E+01                                           |
| Nitroquinoline-N-oxide, 4-     | 56-57-5    | 4.0E-01                                                                      | —                                                  | 3.3E-01                                        | —                                                 |
| Nitrosodiethanolamine          | 1116-54-7  | 1.7E+00                                                                      | —                                                  | 1.7E+00                                        | —                                                 |
| Nitrosodiethylamine, n-        | 55-18-5    | 2.5E-02                                                                      | —                                                  | 1.8E-02                                        | —                                                 |
| Nitrosodimethylamine, n-       | 62-75-9    | 7.4E-02                                                                      | 5.8E-01                                            | 5.5E-02                                        | 5.2E-01                                           |
| Nitrosodi-n-butylamine, n-     | 924-16-3   | 4.7E-01                                                                      | —                                                  | 3.3E-01                                        | —                                                 |
| Nitrosodi-n-propylamine, n-    | 621-64-7   | 4.0E-01                                                                      | —                                                  | 4.0E-01                                        | —                                                 |
| Nitrosodiphenylamine           | 86-30-6    | 5.7E+02                                                                      | —                                                  | 5.7E+02                                        | —                                                 |
| Nitroso-methyl-ethyl-amine, n- | 10595-95-6 | 2.8E-01                                                                      | —                                                  | 2.8E-01                                        | —                                                 |
| Nitrosomorpholine, N-          | 59-89-2    | 5.0E-01                                                                      | —                                                  | 3.9E-01                                        | —                                                 |
| Nitroso-n-ethylurea, n-        | 759-73-9   | 3.4E-02                                                                      | —                                                  | 3.4E-02                                        | —                                                 |
| Nitrosopiperidine, N-          | 100-75-4   | 3.6E-01                                                                      | —                                                  | 2.9E-01                                        | —                                                 |
| Nitrosopyrrolidine, n-         | 930-55-2   | 1.6E+00                                                                      | —                                                  | 1.3E+00                                        | —                                                 |
| Nitrotoluene, m-               | 99-08-1    | —                                                                            | 6.7E+02                                            | —                                              | 6.7E+02                                           |
| Nitrotoluene, o-               | 88-72-2    | 2.1E+01                                                                      | 6.0E+01                                            | 2.1E+01                                        | 6.0E+01                                           |
| Nitrotoluene, p-               | 99-99-0    | 2.9E+02                                                                      | 2.7E+02                                            | 2.9E+02                                        | 2.7E+02                                           |
| Nonachlor, cis-                | 5103-73-1  | 5.6E+00                                                                      | 1.9E+01                                            | 5.6E+00                                        | 1.9E+01                                           |
| Nonachlor, trans-              | 39765-80-5 | 5.6E+00                                                                      | 1.9E+01                                            | 5.6E+00                                        | 1.9E+01                                           |
| Nonanal                        | 124-19-6   | —                                                                            | 1.3E+04                                            | —                                              | 1.3E+04                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                                              | CAS        | TotSoilComb<br>(includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|----------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                                                  |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                                             | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
|                                                                                  |            |                                                                                             |                                                    |                                                |                                                   |
| Nonene, 1-n                                                                      | 124-11-8   | —                                                                                           | 8.2E+03                                            | —                                              | 8.2E+03                                           |
| Nonylphenol, 4-n-                                                                | 104-40-5   | —                                                                                           | 6.5E+03                                            | —                                              | 6.5E+03                                           |
| Nonylphenol ethoxylate                                                           | 9016-45-9  | —                                                                                           | 6.5E+03                                            | —                                              | 6.5E+03                                           |
| Octamethylpyrophosphoramidate                                                    | 152-16-9   | —                                                                                           | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Octanone                                                                         | 106-68-3   | —                                                                                           | 4.9E+03                                            | —                                              | 4.9E+03                                           |
| Oxamyl                                                                           | 23135-22-0 | —                                                                                           | 1.7E+03                                            | —                                              | 1.7E+03                                           |
| Oxychlorthane                                                                    | 27304-13-8 | 5.6E+00                                                                                     | 1.9E+01                                            | 5.6E+00                                        | 1.9E+01                                           |
| Paraquat                                                                         | 1910-42-5  | —                                                                                           | 3.0E+02                                            | —                                              | 3.0E+02                                           |
| Parathion (ethyl parathion)                                                      | 56-38-2    | —                                                                                           | 4.0E+02                                            | —                                              | 4.0E+02                                           |
| Pebulate                                                                         | 1114-71-2  | —                                                                                           | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Pendimethalin                                                                    | 40487-42-1 | —                                                                                           | 2.5E+03                                            | —                                              | 2.5E+03                                           |
| Pentachlorobenzene                                                               | 608-93-5   | —                                                                                           | 5.3E+01                                            | —                                              | 5.3E+01                                           |
| Pentachloroethane                                                                | 76-01-7    | 3.9E+01                                                                                     | 2.5E+03                                            | 2.8E+01                                        | 2.5E+03                                           |
| Pentachloronitrobenzene                                                          | 82-68-8    | 1.0E+01                                                                                     | 1.4E+02                                            | 1.0E+01                                        | 1.4E+02                                           |
| Pentachlorophenol                                                                | 87-86-5    | 7.3E-01                                                                                     | 3.6E+01                                            | 7.3E-01                                        | 3.6E+01                                           |
| Pentadiene, 1,3-cis-                                                             | 1574-41-0  | —                                                                                           | 4.8E+03                                            | —                                              | 4.7E+03                                           |
| Pentadiene, 1,3-trans-                                                           | 2004-70-8  | —                                                                                           | 4.8E+03                                            | —                                              | 4.7E+03                                           |
| Pentaerythritol tetranitrate (PETN)                                              | 78-11-5    | —                                                                                           | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Pentane                                                                          | 109-66-0   | —                                                                                           | 4.8E+03                                            | —                                              | 4.8E+03                                           |
| Pentane, 2-methyl-                                                               | 107-83-5   | —                                                                                           | 4.8E+03                                            | —                                              | 4.7E+03                                           |
| Pentane, 3-methyl-                                                               | 96-14-0    | —                                                                                           | 4.8E+03                                            | —                                              | 4.7E+03                                           |
| Pentanediol, 1,5-                                                                | 111-29-5   | —                                                                                           | 3.0E+05                                            | —                                              | 2.7E+05                                           |
| Pentanol, 1-                                                                     | 71-41-0    | —                                                                                           | 2.7E+03                                            | —                                              | 2.7E+03                                           |
| Pentanol, 4-methyl-2-                                                            | 108-11-2   | —                                                                                           | 2.1E+03                                            | —                                              | 2.1E+03                                           |
| Pentanone, 2-                                                                    | 107-87-9   | —                                                                                           | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Pentene, 2-                                                                      | 109-68-2   | —                                                                                           | 4.8E+03                                            | —                                              | 4.7E+03                                           |
| Pentyne, 1-                                                                      | 627-19-0   | —                                                                                           | 4.8E+03                                            | —                                              | 4.7E+03                                           |
| Perchlorate                                                                      | 14797-73-0 | —                                                                                           | 5.1E+01                                            | —                                              | 5.1E+01                                           |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | —                                                                                           | 1.5E+00                                            | —                                              | 1.5E+00                                           |
| Perfluoroundecanoic acid (Undecanoic acid, undecafluoro-) [PFUnDa]               | 2058-94-8  | —                                                                                           | 8.0E-01                                            | —                                              | 8.0E-01                                           |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                    | 2706-90-3  | —                                                                                           | 3.3E+01                                            | —                                              | 3.3E+01                                           |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                    | 307-24-4   | —                                                                                           | 3.3E+01                                            | —                                              | 3.3E+01                                           |
| Perfluorododecanoic acid (Dodecanoic acid, tricosafuoro-) [PFDoA]                | 307-55-1   | —                                                                                           | 7.9E-01                                            | —                                              | 7.8E-01                                           |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                  | 335-67-1   | —                                                                                           | 6.0E-01                                            | —                                              | 4.9E-01                                           |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                   | 335-76-2   | —                                                                                           | 9.9E-01                                            | —                                              | 9.8E-01                                           |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafuoro-) [PFDS]    | 335-77-3   | —                                                                                           | 8.0E-01                                            | —                                              | 8.0E-01                                           |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS]    | 355-46-4   | —                                                                                           | 2.5E-01                                            | —                                              | 2.4E-01                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                                         | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|-----------------------------------------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                                             |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                                                             |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                  | 375-22-4   | —                                                                            | 6.1E+01                                            | —                                              | 5.6E+01                                           |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]   | 375-73-5   | —                                                                            | 8.6E+01                                            | —                                              | 8.0E+01                                           |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]            | 375-85-9   | —                                                                            | 1.5E+00                                            | —                                              | 1.5E+00                                           |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]             | 375-95-1   | —                                                                            | 7.6E-01                                            | —                                              | 7.3E-01                                           |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosafuoro-) [PFTeDA]  | 376-06-7   | —                                                                            | 5.1E-01                                            | —                                              | 5.1E-01                                           |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosafuoro-) [PFTrDA]      | 72629-94-8 | —                                                                            | 6.1E-01                                            | —                                              | 6.1E-01                                           |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA] | 754-91-6   | —                                                                            | 5.8E-02                                            | —                                              | 3.1E-02                                           |
| Perylene                                                                    | 198-55-0   | —                                                                            | 1.3E+03                                            | —                                              | 1.3E+03                                           |
| Phenacetin                                                                  | 62-44-2    | 1.8E+03                                                                      | —                                                  | 1.5E+03                                        | —                                                 |
| Phenanthrene                                                                | 85-01-8    | —                                                                            | 1.7E+03                                            | —                                              | 1.7E+03                                           |
| Phenanthridine                                                              | 229-87-8   | —                                                                            | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Phenol                                                                      | 108-95-2   | —                                                                            | 1.8E+03                                            | —                                              | 9.5E+02                                           |
| Phenol, 4-tert-butyl-                                                       | 98-54-4    | —                                                                            | 8.0E+03                                            | —                                              | 8.0E+03                                           |
| Phenothiazine                                                               | 92-84-2    | —                                                                            | 6.3E+01                                            | —                                              | 6.3E+01                                           |
| Phenyl mercuric acetate                                                     | 62-38-4    | —                                                                            | 5.3E+00                                            | —                                              | 5.3E+00                                           |
| Phenylene diamine, m-                                                       | 108-45-2   | —                                                                            | 4.0E+02                                            | —                                              | 4.0E+02                                           |
| Phenylene diamine, p-                                                       | 106-50-3   | —                                                                            | 1.3E+04                                            | —                                              | 1.3E+04                                           |
| Phorate                                                                     | 298-02-2   | —                                                                            | 1.3E+01                                            | —                                              | 1.3E+01                                           |
| Phosalone                                                                   | 2310-17-0  | —                                                                            | 1.3E+02                                            | —                                              | 1.3E+02                                           |
| Phosdrin (mevinphos)                                                        | 7786-34-7  | —                                                                            | 1.7E+00                                            | —                                              | 1.7E+00                                           |
| Phosmet                                                                     | 732-11-6   | —                                                                            | 1.3E+03                                            | —                                              | 1.3E+03                                           |
| Phosphine                                                                   | 7803-51-2  | —                                                                            | 3.8E+00                                            | —                                              | 2.1E+00                                           |
| Phosphorotrithioic acid, S,S,S-tributyl ester                               | 78-48-8    | 5.2E+01                                                                      | 3.2E+01                                            | 5.2E+01                                        | 3.2E+01                                           |
| Phosphorus, total*                                                          | 7723-14-0  | —                                                                            | —                                                  | —                                              | —                                                 |
| Phosphorus, white                                                           | 7723-14-0  | —                                                                            | 1.5E+00                                            | —                                              | 1.5E+00                                           |
| Phthalic anhydride                                                          | 85-44-9    | —                                                                            | 3.6E+04                                            | —                                              | 2.1E+04                                           |
| Picloram                                                                    | 1918-02-1  | —                                                                            | 4.7E+03                                            | —                                              | 4.7E+03                                           |
| Picoline, 2- (2-methylpyridine)                                             | 109-06-8   | —                                                                            | 7.4E+02                                            | —                                              | 7.4E+02                                           |
| Polybrominated biphenyls (PBBs)                                             | 67774-32-7 | 9.7E-03                                                                      | 1.6E-02                                            | 9.7E-03                                        | 1.6E-02                                           |
| Polychlorinated biphenyls (PCBs)                                            | 1336-36-3  | 1.8E+00                                                                      | 1.1E+00                                            | 1.7E+00                                        | 1.1E+00                                           |
| Potassium*                                                                  | 7440-09-7  | —                                                                            | —                                                  | —                                              | —                                                 |
| Primene                                                                     | 68955-53-3 | —                                                                            | 3.6E+02                                            | —                                              | 3.6E+02                                           |
| Prometon (pramitol)                                                         | 1610-18-0  | —                                                                            | 1.0E+03                                            | —                                              | 1.0E+03                                           |
| Prometryn                                                                   | 7287-19-6  | —                                                                            | 2.7E+03                                            | —                                              | 2.7E+03                                           |
| Pronamide                                                                   | 23950-58-5 | —                                                                            | 5.0E+03                                            | —                                              | 5.0E+03                                           |
| Propanal (propionaldehyde)                                                  | 123-38-6   | —                                                                            | 1.0E+02                                            | —                                              | 5.8E+01                                           |
| Propane, 1-bromo-                                                           | 106-94-5   | —                                                                            | 2.9E+03                                            | —                                              | 2.9E+03                                           |
| Propanil                                                                    | 709-98-8   | —                                                                            | 3.3E+02                                            | —                                              | 3.3E+02                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern               | CAS         | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|-----------------------------------|-------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                   |             | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                   |             | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Propanoic acid (propionic acid)   | 79-09-4     | —                                                                            | 4.1E+04                                            | —                                              | 4.1E+04                                           |
| Propanol, 1-                      | 71-23-8     | —                                                                            | 1.6E+05                                            | —                                              | 1.6E+05                                           |
| Propargite                        | 2312-35-8   | —                                                                            | 1.3E+03                                            | —                                              | 1.3E+03                                           |
| Propargyl alcohol                 | 107-19-7    | —                                                                            | 1.6E+02                                            | —                                              | 1.6E+02                                           |
| Propazine                         | 139-40-2    | 1.1E+02                                                                      | 1.3E+03                                            | 1.1E+02                                        | 1.3E+03                                           |
| Propham                           | 122-42-9    | —                                                                            | 1.3E+03                                            | —                                              | 1.3E+03                                           |
| Propionitrile (propane nitrile)   | 107-12-0    | —                                                                            | 3.3E+01                                            | —                                              | 3.3E+01                                           |
| Propyl acetate, n-                | 109-60-4    | —                                                                            | 7.4E+03                                            | —                                              | 7.4E+03                                           |
| Propylbenzene, n-                 | 103-65-1    | —                                                                            | 2.2E+03                                            | —                                              | 1.6E+03                                           |
| Propylene glycol                  | 57-55-6     | —                                                                            | 3.7E+02                                            | —                                              | 1.9E+02                                           |
| Propylene glycol monomethyl ether | 107-98-2    | —                                                                            | 4.6E+04                                            | —                                              | 3.9E+04                                           |
| Propylene oxide                   | 75-56-9     | 2.0E+01                                                                      | 4.6E+02                                            | 1.7E+01                                        | 2.4E+02                                           |
| Propylene tetramer                | 6842-15-5   | —                                                                            | 4.6E+03                                            | —                                              | 3.6E+03                                           |
| Prothiofos (Tokuthion)            | 34643-46-4  | —                                                                            | 6.6E+00                                            | —                                              | 6.6E+00                                           |
| Pyrene                            | 129-00-0    | —                                                                            | 1.7E+03                                            | —                                              | 1.7E+03                                           |
| Pyridine                          | 110-86-1    | —                                                                            | 8.2E+01                                            | —                                              | 8.2E+01                                           |
| Quinoline                         | 91-22-5     | 1.6E+00                                                                      | —                                                  | 1.6E+00                                        | —                                                 |
| Ronnel                            | 299-84-3    | —                                                                            | 2.3E+03                                            | —                                              | 2.3E+03                                           |
| Safrole                           | 94-59-7     | 1.6E+01                                                                      | —                                                  | 1.3E+01                                        | —                                                 |
| Selenium                          | 7782-49-2   | —                                                                            | 3.1E+02                                            | —                                              | 3.1E+02                                           |
| Selenourea                        | 630-10-4    | —                                                                            | 4.1E+02                                            | —                                              | 4.1E+02                                           |
| Silver                            | 7440-22-4   | —                                                                            | 9.7E+01                                            | —                                              | 9.7E+01                                           |
| Simazine                          | 122-34-9    | 3.9E+01                                                                      | 3.3E+02                                            | 3.9E+01                                        | 3.3E+02                                           |
| Sodium*                           | 7440-23-5   | —                                                                            | —                                                  | —                                              | —                                                 |
| Sodium hypochlorite               | 7681-52-9   | —                                                                            | 1.5E+04                                            | —                                              | 1.4E+04                                           |
| Sodium polyacrylate               | 9003-04-7   | —                                                                            | 1.2E+02                                            | —                                              | 6.2E+01                                           |
| Strontium                         | 7440-24-6   | —                                                                            | 4.4E+04                                            | —                                              | 4.4E+04                                           |
| Strychnine                        | 57-24-9     | —                                                                            | 2.0E+01                                            | —                                              | 2.0E+01                                           |
| Styrene                           | 100-42-5    | —                                                                            | 6.7E+03                                            | —                                              | 4.3E+03                                           |
| Sulfate*                          | 14808-79-8  | —                                                                            | —                                                  | —                                              | —                                                 |
| Sulfide*                          | 18496-25-8  | —                                                                            | —                                                  | —                                              | —                                                 |
| Sulfolane                         | 126-33-0    | —                                                                            | 4.3E+02                                            | —                                              | 2.9E+02                                           |
| Sulfur*                           | 7704-34-9   | —                                                                            | —                                                  | —                                              | —                                                 |
| Sulprofos (Bolstar)               | 35400-43-2  | —                                                                            | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Tebuconazole                      | 107534-96-3 | —                                                                            | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Tebuthiuron                       | 34014-18-1  | —                                                                            | 4.7E+03                                            | —                                              | 4.7E+03                                           |
| Terbufos                          | 13071-79-9  | —                                                                            | 1.7E+00                                            | —                                              | 1.7E+00                                           |
| Tert-amyl ethyl ether (TAEE)      | 919-94-8    | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                       | CAS        | TotSoilComb                                                                  |                                                    |                                                |                                                   |
|-------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                           |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                           |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Tert-amyl-methyl ether (TAME)             | 994-05-8   | —                                                                            | 3.3E+03                                            | —                                              | 3.3E+03                                           |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0    | —                                                                            | 5.0E+04                                            | —                                              | 4.4E+04                                           |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2   | —                                                                            | 2.0E+01                                            | —                                              | 2.0E+01                                           |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2   | —                                                                            | 1.3E+01                                            | —                                              | 1.3E+01                                           |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3    | —                                                                            | 2.0E+01                                            | —                                              | 2.0E+01                                           |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6   | 6.5E+01                                                                      | 2.5E+03                                            | 3.9E+01                                        | 2.5E+03                                           |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5    | 3.0E+01                                                                      | 1.6E+03                                            | 3.0E+01                                        | 1.6E+03                                           |
| Tetrachloroethylene [PCE]                 | 127-18-4   | 7.1E+02                                                                      | 1.3E+03                                            | 4.2E+02                                        | 1.1E+03                                           |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3  | —                                                                            | 4.0E+02                                            | —                                              | 4.0E+02                                           |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2    | —                                                                            | 1.8E+02                                            | —                                              | 1.8E+02                                           |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5   | —                                                                            | 2.3E+01                                            | —                                              | 2.3E+01                                           |
| Tetrachlorvinphos (Stiropfos)             | 22248-79-9 | —                                                                            | 2.6E+03                                            | —                                              | 2.6E+03                                           |
| Tetradifon                                | 116-29-0   | —                                                                            | 1.0E+03                                            | —                                              | 1.0E+03                                           |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5  | —                                                                            | 3.3E+01                                            | —                                              | 3.3E+01                                           |
| Tetraethyl lead                           | 78-00-2    | —                                                                            | 6.7E-03                                            | —                                              | 6.7E-03                                           |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3   | —                                                                            | 7.3E-01                                            | —                                              | 7.3E-01                                           |
| Tetraethylene glycol                      | 112-60-7   | —                                                                            | 2.2E+04                                            | —                                              | 2.2E+04                                           |
| Tetrahydrofuran                           | 109-99-9   | 1.5E+02                                                                      | 2.2E+04                                            | 8.6E+01                                        | 1.3E+04                                           |
| Tetrahydropyran                           | 142-68-7   | 1.6E+02                                                                      | 1.6E+04                                            | 9.2E+01                                        | 1.6E+04                                           |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2   | —                                                                            | 1.7E+03                                            | —                                              | 1.7E+03                                           |
| Thallium                                  | 7440-28-0  | —                                                                            | 5.3E+00                                            | —                                              | 5.3E+00                                           |
| Thiofanox                                 | 39196-18-4 | —                                                                            | 2.0E+01                                            | —                                              | 2.0E+01                                           |
| Thionazin                                 | 297-97-2   | —                                                                            | 4.7E+00                                            | —                                              | 4.7E+00                                           |
| Thiophanate-methyl                        | 23564-05-8 | —                                                                            | 5.3E+03                                            | —                                              | 5.3E+03                                           |
| Thiram                                    | 137-26-8   | —                                                                            | 3.3E+02                                            | —                                              | 3.3E+02                                           |
| Tin                                       | 7440-31-5  | —                                                                            | 3.5E+04                                            | —                                              | 3.5E+04                                           |
| Titanium                                  | 7440-32-6  | —                                                                            | 2.2E+05                                            | —                                              | 2.2E+05                                           |
| Toluene                                   | 108-88-3   | —                                                                            | 5.9E+03                                            | —                                              | 5.4E+03                                           |
| Toluene diisocyanate, 2,4/2,6-            | 26471-62-5 | —                                                                            | 1.5E+02                                            | —                                              | 7.5E+01                                           |
| Toluenediamine, 2,4-                      | 95-80-7    | 1.5E+00                                                                      | —                                                  | 1.5E+00                                        | —                                                 |
| Toluenediamine, 2,6-                      | 823-40-5   | —                                                                            | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Toluidine, o-                             | 95-53-4    | 4.7E+01                                                                      | —                                                  | 3.5E+01                                        | —                                                 |
| Toluidine, p-                             | 106-49-0   | 7.1E+01                                                                      | —                                                  | 7.1E+01                                        | —                                                 |
| Toxaphene                                 | 8001-35-2  | 1.2E+00                                                                      | 9.0E+00                                            | 1.2E+00                                        | 9.0E+00                                           |
| TPH, TX1005, C6-C12                       | TPH-1005-1 | —                                                                            | 1.6E+03                                            | —                                              | 1.1E+03                                           |
| TPH, TX1005, >C12-C28                     | TPH-1005-2 | —                                                                            | 2.3E+03                                            | —                                              | 2.0E+03                                           |
| TPH, TX1005, >C12-C35                     | TPH-1005-3 | —                                                                            | 2.3E+03                                            | —                                              | 2.0E+03                                           |
| TPH, TX1005, >C28-C35                     | TPH-1005-4 | —                                                                            | 2.3E+03                                            | —                                              | 2.0E+03                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | TotSoil <sub>Comb</sub>                                                      |                                                    |                                                |                                                   |
|----------------------------------------------------|------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                    |            | (includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|                                                    |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                              | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| TP Silvex, 2,4,5-                                  | 93-72-1    | —                                                                            | 5.3E+02                                            | —                                              | 5.3E+02                                           |
| Triademenol                                        | 55219-65-3 | —                                                                            | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Triallate                                          | 2303-17-5  | —                                                                            | 3.2E+02                                            | —                                              | 3.2E+02                                           |
| Triaminotrinitrobenzene (TATB)                     | 3058-38-6  | —                                                                            | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Tributyltin oxide                                  | 56-35-9    | —                                                                            | 2.0E+01                                            | —                                              | 2.0E+01                                           |
| Trichloro-1,2,2-trifluoroethane, 1,1,2-            | 76-13-1    | —                                                                            | 7.4E+04                                            | —                                              | 3.9E+04                                           |
| Trichlorobenzene, 1,2,3-                           | 87-61-6    | —                                                                            | 1.2E+02                                            | —                                              | 8.7E+01                                           |
| Trichlorobenzene, 1,2,4-                           | 120-82-1   | 1.6E+02                                                                      | 1.2E+02                                            | 1.6E+02                                        | 7.0E+01                                           |
| Trichlorobenzene, 1,3,5-                           | 108-70-3   | —                                                                            | 7.8E+01                                            | —                                              | 4.9E+01                                           |
| Trichloroethane, 1,1,1-                            | 71-55-6    | —                                                                            | 5.3E+04                                            | —                                              | 3.2E+04                                           |
| Trichloroethane, 1,1,2-                            | 79-00-5    | 1.8E+01                                                                      | 3.3E+02                                            | 1.0E+01                                        | 3.3E+02                                           |
| Trichloroethylene [TCE]                            | 79-01-6    | 5.3E+01                                                                      | 1.8E+01                                            | 3.4E+01                                        | 1.1E+01                                           |
| Trichlorofluoromethane                             | 75-69-4    | —                                                                            | 2.5E+04                                            | —                                              | 2.5E+04                                           |
| Trichloronate                                      | 327-98-0   | —                                                                            | 1.4E+02                                            | —                                              | 1.4E+02                                           |
| Trichlorophenol, 2,3,4-                            | 15950-66-0 | —                                                                            | 6.7E+03                                            | —                                              | 6.7E+03                                           |
| Trichlorophenol, 2,3,5-                            | 933-78-8   | —                                                                            | 6.7E+03                                            | —                                              | 6.7E+03                                           |
| Trichlorophenol, 2,3,6-                            | 933-75-5   | —                                                                            | 5.3E+02                                            | —                                              | 5.3E+02                                           |
| Trichlorophenol, 2,4,5-                            | 95-95-4    | —                                                                            | 6.7E+03                                            | —                                              | 6.7E+03                                           |
| Trichlorophenol, 2,4,6-                            | 88-06-2    | 3.5E+02                                                                      | 6.7E+01                                            | 3.0E+02                                        | 6.7E+01                                           |
| Trichlorophenol, 3,4,5-                            | 609-19-8   | —                                                                            | 6.7E+03                                            | —                                              | 6.7E+03                                           |
| Trichlorophenoxyacetic acid, 2,4,5-                | 93-76-5    | —                                                                            | 6.7E+02                                            | —                                              | 6.7E+02                                           |
| Trichloropropane, 1,1,2-                           | 598-77-6   | —                                                                            | 4.6E+00                                            | —                                              | 2.4E+00                                           |
| Trichloropropane, 1,2,3-                           | 96-18-4    | 2.0E-01                                                                      | 1.3E+01                                            | 2.0E-01                                        | 7.0E+00                                           |
| Triethanolamine                                    | 102-71-6   | —                                                                            | 3.0E+03                                            | —                                              | 1.7E+03                                           |
| Triethylamine                                      | 121-44-8   | —                                                                            | 1.1E+02                                            | —                                              | 5.5E+01                                           |
| Triethylene glycol                                 | 112-27-6   | —                                                                            | 1.3E+05                                            | —                                              | 1.3E+05                                           |
| Triethylphosphorothioate, O, O, O-                 | 126-68-1   | —                                                                            | 5.5E-01                                            | —                                              | 5.5E-01                                           |
| Trifluralin                                        | 1582-09-8  | 2.7E+02                                                                      | 3.0E+02                                            | 2.7E+02                                        | 3.0E+02                                           |
| Trimethylamine                                     | 75-50-3    | —                                                                            | 1.5E+02                                            | —                                              | 7.6E+01                                           |
| Trimethylbenzene, 1,2,3-                           | 526-73-8   | —                                                                            | 1.6E+03                                            | —                                              | 1.1E+03                                           |
| Trimethylbenzene, 1,2,4-                           | 95-63-6    | —                                                                            | 1.6E+03                                            | —                                              | 1.2E+03                                           |
| Trimethylbenzene, 1,3,5-                           | 108-67-8   | —                                                                            | 1.5E+03                                            | —                                              | 1.1E+03                                           |
| Trinitrobenzene, 1,3,5-                            | 99-35-4    | —                                                                            | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Trinitrophenylmethyl nitramine (tetryl; nitramine) | 479-45-8   | —                                                                            | 1.5E+02                                            | —                                              | 1.5E+02                                           |
| Trinitrotoluene, 2,4,6-                            | 118-96-7   | 1.6E+02                                                                      | 3.3E+01                                            | 1.6E+02                                        | 3.3E+01                                           |
| Tungsten (as sodium tungstate dihydride)           | 7440-33-7  | —                                                                            | 7.3E+01                                            | —                                              | 7.3E+01                                           |
| Uranium (soluble salts)                            | 7440-61-1  | —                                                                            | 2.2E+02                                            | —                                              | 2.2E+02                                           |
| Valeric acid (pentanoic acid)                      | 109-52-4   | —                                                                            | 1.3E+02                                            | —                                              | 6.8E+01                                           |

**Table 4**  
**Tier 1 Residential Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CAS       | TotSoilComb<br>(includes inhalation, ingestion, dermal, and vegetable consumption pathways) |                                                    |                                                |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                                             | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Vanadium                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-62-2 | —                                                                                           | 7.6E+01                                            | —                                              | 7.5E+01                                           |
| Vernam                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1929-77-7 | —                                                                                           | 6.7E+01                                            | —                                              | 6.7E+01                                           |
| Vinyl acetate                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 108-05-4  | —                                                                                           | 3.0E+03                                            | —                                              | 1.5E+03                                           |
| Vinyl chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75-01-4   | 3.7E+00                                                                                     | 1.9E+02                                            | 3.4E+00                                        | 1.6E+02                                           |
| Vinylcyclohexane                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 695-12-5  | —                                                                                           | 4.1E+04                                            | —                                              | 4.1E+04                                           |
| Warfarin                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 81-81-2   | —                                                                                           | 2.0E+01                                            | —                                              | 2.0E+01                                           |
| Xylene, m-                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 108-38-3  | —                                                                                           | 8.9E+03                                            | —                                              | 4.7E+03                                           |
| Xylene, o-                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 95-47-6   | —                                                                                           | 4.8E+04                                            | —                                              | 2.9E+04                                           |
| Xylene, p-                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 106-42-3  | —                                                                                           | 8.9E+03                                            | —                                              | 4.7E+03                                           |
| Xylenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1330-20-7 | —                                                                                           | 6.0E+03                                            | —                                              | 3.7E+03                                           |
| Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7440-66-6 | —                                                                                           | 9.9E+03                                            | —                                              | 9.9E+03                                           |
| 6 C aliphatics (TPH) (>53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                                  | NA        | —                                                                                           | 3.3E+03                                            | —                                              | 2.5E+03                                           |
| 6 C aliphatics (TPH) (<53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                                  | NA        | —                                                                                           | 4.8E+03                                            | —                                              | 4.8E+03                                           |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                               | NA        | —                                                                                           | 3.3E+03                                            | —                                              | 2.5E+03                                           |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                               | NA        | —                                                                                           | 4.8E+03                                            | —                                              | 4.8E+03                                           |
| >8-10 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA        | —                                                                                           | 4.0E+03                                            | —                                              | 2.7E+03                                           |
| >10-12 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA        | —                                                                                           | 3.6E+03                                            | —                                              | 2.5E+03                                           |
| >12-16 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA        | —                                                                                           | 4.3E+03                                            | —                                              | 3.2E+03                                           |
| >16-21 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA        | —                                                                                           | 1.3E+05                                            | —                                              | 1.3E+05                                           |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                                                                                                                                                                                                         | NA        | —                                                                                           | 1.1E+05                                            | —                                              | 1.1E+05                                           |
| >21-35 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA        | —                                                                                           | 1.3E+05                                            | —                                              | 1.3E+05                                           |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                                                                                                                                                                                                         | NA        | —                                                                                           | 1.1E+05                                            | —                                              | 1.1E+05                                           |
| >7-8 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA        | —                                                                                           | 6.4E+03                                            | —                                              | 5.3E+03                                           |
| >8-10 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NA        | —                                                                                           | 1.6E+03                                            | —                                              | 1.1E+03                                           |
| >10-12 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA        | —                                                                                           | 1.9E+03                                            | —                                              | 1.5E+03                                           |
| >12-16 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA        | —                                                                                           | 2.3E+03                                            | —                                              | 2.0E+03                                           |
| >16-21 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA        | —                                                                                           | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| >21-35 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA        | —                                                                                           | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| <b>Footnotes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                             |                                                    |                                                |                                                   |
| 1 Site-specific PCLs for mercury may vary based on the pH-dependent Kd value (see Figure:30 TAC §350.73(f)(1)(C)). Persons should use the Tier 1 pH 4.9-based PCLs unless a site-specific soil pH > 6.8 is demonstrated with site-specific soil samples.                                                                                                                                                                                                                      |           |                                                                                             |                                                    |                                                |                                                   |
| * These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <a href="http://www.tceq.state.tx.us/remediation/trrp/trrp.html">http://www.tceq.state.tx.us/remediation/trrp/trrp.html</a> . |           |                                                                                             |                                                    |                                                |                                                   |
| NA = not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                             |                                                    |                                                |                                                   |
| All values capped at 1E+06                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                             |                                                    |                                                |                                                   |

This table shows the total soil combined protective concentration levels for residential land with both carcinogenic and non-carcinogenic values depicted.

end of worksheet

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                          |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                          |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Acenaphthene                             | 83-32-9    | —                                                     | 3.7E+04                                            | —                                              | 3.7E+04                                           |
| Acenaphthylene                           | 208-96-8   | —                                                     | 3.7E+04                                            | —                                              | 3.7E+04                                           |
| Acetaldehyde                             | 75-07-0    | 2.9E+02                                               | 2.0E+02                                            | 1.5E+02                                        | 1.0E+02                                           |
| Acetate, 2-ethoxyethanol                 | 111-15-9   | —                                                     | 7.8E+03                                            | —                                              | 4.2E+03                                           |
| Acetate, isoamyl                         | 123-92-2   | —                                                     | 7.4E+04                                            | —                                              | 7.4E+04                                           |
| Acetate, isobutyl                        | 110-19-0   | —                                                     | 4.9E+04                                            | —                                              | 4.9E+04                                           |
| Acetate, sec-butyl                       | 105-46-4   | —                                                     | 4.9E+04                                            | —                                              | 4.9E+04                                           |
| Acetic acid*                             | 64-19-7    | —                                                     | —                                                  | —                                              | —                                                 |
| Acetone (2-propanone)                    | 67-64-1    | —                                                     | 4.4E+05                                            | —                                              | 2.9E+05                                           |
| Acetone cyanohydrin                      | 75-86-5    | —                                                     | 1.5E+03                                            | —                                              | 1.2E+03                                           |
| Acetonitrile                             | 75-05-8    | —                                                     | 1.7E+03                                            | —                                              | 9.1E+02                                           |
| Acetophenone                             | 98-86-2    | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Acetylaminofluorene, 2-                  | 53-96-3    | 4.3E+00                                               | —                                                  | 3.8E+00                                        | —                                                 |
| Acifluorfen, sodium                      | 62476-59-9 | —                                                     | 8.9E+03                                            | —                                              | 8.9E+03                                           |
| Acridine                                 | 260-94-6   | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Acrolein                                 | 107-02-8   | —                                                     | 1.5E+02                                            | —                                              | 9.0E+01                                           |
| Acrylamide                               | 79-06-1    | 2.1E+01                                               | 5.8E+02                                            | 1.5E+01                                        | 3.7E+02                                           |
| Acrylic acid                             | 79-10-7    | —                                                     | 1.7E+02                                            | —                                              | 8.7E+01                                           |
| Acrylonitrile                            | 107-13-1   | 7.6E+00                                               | 4.1E+01                                            | 4.2E+00                                        | 2.2E+01                                           |
| Adipic acid (hexanedioic acid)           | 124-04-9   | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Alachlor                                 | 15972-60-8 | 2.4E+02                                               | 6.8E+03                                            | 2.4E+02                                        | 6.8E+03                                           |
| Aldicarb                                 | 116-06-3   | —                                                     | 6.8E+02                                            | —                                              | 6.8E+02                                           |
| Aldicarb sulfone                         | 1646-88-4  | —                                                     | 6.8E+02                                            | —                                              | 6.8E+02                                           |
| Aldrin                                   | 309-00-2   | 1.0E+00                                               | 2.0E+01                                            | 9.7E-01                                        | 2.0E+01                                           |
| Allyl alcohol                            | 107-18-6   | —                                                     | 8.0E+00                                            | —                                              | 4.1E+00                                           |
| Allyl chloride                           | 107-05-1   | —                                                     | 2.1E+01                                            | —                                              | 1.1E+01                                           |
| Aluminum                                 | 7429-90-5  | —                                                     | 6.2E+05                                            | —                                              | 5.7E+05                                           |
| Ametryn                                  | 834-12-8   | —                                                     | 6.1E+03                                            | —                                              | 6.1E+03                                           |
| Amino-2,6-dinitrotoluene, 4-             | 19406-51-0 | 6.4E+02                                               | 3.4E+02                                            | 6.4E+02                                        | 3.4E+02                                           |
| Amino-4,6-dinitrotoluene, 2-             | 35572-78-2 | 6.4E+02                                               | 3.4E+02                                            | 6.4E+02                                        | 3.4E+02                                           |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine) | 92-67-1    | 3.1E+00                                               | —                                                  | 3.1E+00                                        | —                                                 |
| Aminopyridine, 4-                        | 504-24-5   | —                                                     | 1.4E+01                                            | —                                              | 1.4E+01                                           |
| Ammonia                                  | 7664-41-7  | —                                                     | 6.9E+03                                            | —                                              | 3.5E+03                                           |
| Ammonium polyphosphate*                  | 6833-79-9  | —                                                     | —                                                  | —                                              | —                                                 |
| Ammonium salts*                          | AMMONIUM   | —                                                     | —                                                  | —                                              | —                                                 |
| Aniline                                  | 62-53-3    | 3.3E+03                                               | 1.8E+02                                            | 3.3E+03                                        | 9.3E+01                                           |
| Anthracene                               | 120-12-7   | —                                                     | 1.9E+05                                            | —                                              | 1.9E+05                                           |
| Anthraquinone, 9,10-                     | 84-65-1    | 4.9E+02                                               | 1.4E+04                                            | 4.9E+02                                        | 1.4E+04                                           |
| Antimony                                 | 7440-36-0  | —                                                     | 3.1E+02                                            | —                                              | 3.1E+02                                           |
| Aramite                                  | 140-57-8   | 7.6E+02                                               | 3.4E+04                                            | 7.6E+02                                        | 3.4E+04                                           |
| Arsenic                                  | 7440-38-2  | 2.0E+02                                               | 3.3E+02                                            | 2.0E+02                                        | 3.3E+02                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|-----------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                               |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                               |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Arsine                                        | 7784-42-1  | —                                                     | 1.1E+00                                            | —                                              | 5.5E-01                                           |
| Atrazine                                      | 1912-24-9  | 8.6E+01                                               | 2.4E+04                                            | 8.6E+01                                        | 2.4E+04                                           |
| Azinphos-methyl (guthion)                     | 86-50-0    | —                                                     | 1.0E+03                                            | —                                              | 1.0E+03                                           |
| Azobenzene                                    | 103-33-3   | 1.6E+02                                               | —                                                  | 1.5E+02                                        | —                                                 |
| Barium                                        | 7440-39-3  | —                                                     | 1.2E+05                                            | —                                              | 1.2E+05                                           |
| Bayleton                                      | 43121-43-3 | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Benefin (benfluralin)                         | 1861-40-1  | —                                                     | 2.0E+05                                            | —                                              | 2.0E+05                                           |
| Benomyl                                       | 17804-35-2 | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Benz-a-anthracene                             | 56-55-3    | 1.7E+02                                               | —                                                  | 1.7E+02                                        | —                                                 |
| Benzaldehyde                                  | 100-52-7   | —                                                     | 1.0E+05                                            | —                                              | 1.0E+05                                           |
| Benzene                                       | 71-43-2    | 2.4E+02                                               | 2.4E+03                                            | 1.3E+02                                        | 1.8E+03                                           |
| Benzenedicarbonitrile, 1,3-                   | 626-17-5   | —                                                     | 4.1E+03                                            | —                                              | 4.1E+03                                           |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | —                                                     | 2.7E+04                                            | —                                              | 2.7E+04                                           |
| Benzenethiol                                  | 108-98-5   | —                                                     | 1.0E+03                                            | —                                              | 1.0E+03                                           |
| Benzidine                                     | 92-87-5    | 4.7E-02                                               | 2.0E+03                                            | 3.3E-02                                        | 2.0E+03                                           |
| Benzo-a-pyrene                                | 50-32-8    | 1.7E+01                                               | 5.9E+01                                            | 1.7E+01                                        | 3.6E+01                                           |
| Benzo-b-fluoranthene                          | 205-99-2   | 1.7E+02                                               | —                                                  | 1.7E+02                                        | —                                                 |
| Benzo-e-pyrene                                | 192-97-2   | —                                                     | 1.9E+04                                            | —                                              | 1.9E+04                                           |
| Benzo-g,h,i-perylene                          | 191-24-2   | —                                                     | 1.9E+04                                            | —                                              | 1.9E+04                                           |
| Benzoic acid                                  | 65-85-0    | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Benzo-j-fluoranthene                          | 205-82-3   | 1.7E+02                                               | —                                                  | 1.7E+02                                        | —                                                 |
| Benzo-k-fluoranthene                          | 207-08-9   | 1.7E+03                                               | —                                                  | 1.7E+03                                        | —                                                 |
| Benzophenone                                  | 119-61-9   | —                                                     | 4.6E+03                                            | —                                              | 4.6E+03                                           |
| Benzotrichloride                              | 98-07-7    | 1.5E+00                                               | —                                                  | 1.5E+00                                        | —                                                 |
| Benzoyl peroxide                              | 94-36-0    | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Benzyl alcohol                                | 100-51-6   | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Benzyl chloride                               | 100-44-7   | 1.7E+02                                               | 4.2E+01                                            | 1.7E+02                                        | 2.2E+01                                           |
| Benzyl dichloride                             | 98-87-3    | 1.1E+02                                               | 7.3E+01                                            | 1.1E+02                                        | 3.9E+01                                           |
| Beryllium                                     | 7440-41-7  | 1.6E+04                                               | 2.1E+02                                            | 8.1E+03                                        | 1.8E+02                                           |
| Biphenyl, 1,1'-                               | 92-52-4    | —                                                     | 8.5E+04                                            | —                                              | 8.5E+04                                           |
| Biphenyl, 1,1'-, 2-phenoxy-                   | 6738-04-1  | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Biquinoline, 2,2'-                            | 119-91-5   | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Bis (2-chloroethoxy) methane                  | 111-91-1   | 9.1E+00                                               | 2.0E+03                                            | 6.2E+00                                        | 2.0E+03                                           |
| Bis (2-chloroethyl) ether                     | 111-44-4   | 4.9E+00                                               | —                                                  | 2.8E+00                                        | —                                                 |
| Bis (2-chloro-1-methylethyl) ether            | 108-60-1   | 1.5E+02                                               | 2.7E+04                                            | 1.1E+02                                        | 2.7E+04                                           |
| Bis (2-chloromethyl) ether                    | 542-88-1   | 9.0E-03                                               | —                                                  | 4.8E-03                                        | —                                                 |
| Bis (2-ethyl-hexyl) phthalate                 | 117-81-7   | 5.6E+02                                               | 5.6E+03                                            | 5.6E+02                                        | 5.6E+03                                           |
| Bismuth                                       | 7440-69-9  | —                                                     | 4.1E+05                                            | —                                              | 4.1E+05                                           |
| Bisphenol A                                   | 80-05-7    | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Boron                                         | 7440-42-8  | —                                                     | 1.9E+05                                            | —                                              | 1.9E+05                                           |
| Bromacil                                      | 314-40-9   | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                        | CAS        | TotSoilComb                                           |                                                    |                                                |                                                   |
|------------------------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                            |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                            |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Bromo-2-chloroethane, 1-                                   | 107-04-0   | —                                                     | 4.1E+04                                            | —                                              | 4.1E+04                                           |
| Bromobenzene                                               | 108-86-1   | —                                                     | 1.2E+03                                            | —                                              | 6.4E+02                                           |
| Bromodichloromethane                                       | 75-27-4    | 4.6E+02                                               | 8.2E+03                                            | 4.6E+02                                        | 8.2E+03                                           |
| Bromoform                                                  | 75-25-2    | 1.0E+03                                               | 2.0E+04                                            | 6.0E+02                                        | 2.0E+04                                           |
| Bromomethane                                               | 74-83-9    | —                                                     | 7.9E+01                                            | —                                              | 4.2E+01                                           |
| Bromophenyl phenylether, 4-                                | 101-55-3   | 1.2E+00                                               | —                                                  | 1.1E+00                                        | —                                                 |
| Butadiene, 1,3-                                            | 106-99-0   | 1.2E+03                                               | 7.1E+02                                            | 6.2E+02                                        | 3.6E+02                                           |
| Butadiene, 2-methyl-1,3- (isoprene)                        | 78-79-5    | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| Butanal (butyraldehyde)                                    | 123-72-8   | —                                                     | 2.1E+03                                            | —                                              | 1.1E+03                                           |
| Butane, 2,3-dimethyl-                                      | 79-29-8    | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| Butanoic acid (butyric acid)                               | 107-92-6   | —                                                     | 1.8E+02                                            | —                                              | 9.3E+01                                           |
| Butanol, 2-                                                | 78-92-2    | —                                                     | 1.0E+06                                            | —                                              | 6.8E+05                                           |
| Butanol, 2-methyl-1-                                       | 137-32-6   | —                                                     | 1.0E+04                                            | —                                              | 1.0E+04                                           |
| Butanol, 2-methyl-2-                                       | 75-85-4    | —                                                     | 1.0E+04                                            | —                                              | 1.0E+04                                           |
| Butanol, n-                                                | 71-36-3    | —                                                     | 1.0E+05                                            | —                                              | 1.0E+05                                           |
| Butene, 1-                                                 | 106-98-9   | —                                                     | 4.0E+04                                            | —                                              | 3.0E+04                                           |
| Butene, cis-2-                                             | 590-18-1   | —                                                     | 2.2E+04                                            | —                                              | 1.4E+04                                           |
| Butene, trans-2-                                           | 624-64-6   | —                                                     | 2.2E+04                                            | —                                              | 1.4E+04                                           |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2   | —                                                     | 5.8E+04                                            | —                                              | 5.2E+04                                           |
| Butyl acetate                                              | 123-86-4   | —                                                     | 6.4E+04                                            | —                                              | 4.2E+04                                           |
| Butyl acrylate                                             | 141-32-2   | —                                                     | 9.2E+03                                            | —                                              | 9.2E+03                                           |
| Butyl benzyl phthalate                                     | 85-68-7    | 1.0E+04                                               | 1.4E+05                                            | 1.0E+04                                        | 1.4E+05                                           |
| Butyl ether, n- (dibutyl ether)                            | 142-96-1   | —                                                     | 1.0E+05                                            | —                                              | 1.0E+05                                           |
| Butyl methacrylate                                         | 97-88-1    | —                                                     | 2.6E+04                                            | —                                              | 2.6E+04                                           |
| Butylate                                                   | 2008-41-5  | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Butylbenzene, n-                                           | 104-51-8   | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Butylbenzene, sec-                                         | 135-98-8   | —                                                     | 4.1E+04                                            | —                                              | 4.1E+04                                           |
| Butylbenzene, tert-                                        | 98-06-6    | —                                                     | 4.1E+04                                            | —                                              | 4.1E+04                                           |
| Cacodylic acid                                             | 75-60-5    | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Cadmium                                                    | 7440-43-9  | 7.7E+04                                               | 8.1E+02                                            | 4.0E+04                                        | 7.7E+02                                           |
| Calcium*                                                   | 7440-70-2  | —                                                     | —                                                  | —                                              | —                                                 |
| Caprolactam                                                | 105-60-2   | —                                                     | 3.4E+05                                            | —                                              | 3.4E+05                                           |
| Captan                                                     | 133-06-2   | 5.5E+03                                               | 8.9E+04                                            | 5.5E+03                                        | 8.9E+04                                           |
| Carbaryl                                                   | 63-25-2    | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Carbazole                                                  | 86-74-8    | 9.5E+02                                               | —                                                  | 9.5E+02                                        | —                                                 |
| Carbofuran                                                 | 1563-66-2  | —                                                     | 3.4E+03                                            | —                                              | 3.4E+03                                           |
| Carbon disulfide                                           | 75-15-0    | —                                                     | 1.3E+04                                            | —                                              | 7.2E+03                                           |
| Carbon tetrachloride                                       | 56-23-5    | 1.2E+02                                               | 1.9E+03                                            | 7.1E+01                                        | 1.2E+03                                           |
| Carbophenothion                                            | 786-19-6   | —                                                     | 8.9E+03                                            | —                                              | 8.9E+03                                           |
| Carbosulfan                                                | 55285-14-8 | —                                                     | 6.8E+03                                            | —                                              | 6.8E+03                                           |
| Carboxin                                                   | 5234-68-4  | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|-------------------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                       |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                       |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Chloral                                               | 75-87-6    | —                                                     | 1.0E+05                                            | —                                              | 1.0E+05                                           |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)    | 302-17-0   | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid) | 133-90-4   | —                                                     | 1.0E+04                                            | —                                              | 1.0E+04                                           |
| Chlordane (technical)                                 | 12789-03-6 | 6.6E+01                                               | 3.9E+02                                            | 6.4E+01                                        | 3.7E+02                                           |
| Chlordane, cis- (alpha chlordane)                     | 5103-71-9  | 5.4E+01                                               | 3.3E+02                                            | 5.4E+01                                        | 3.3E+02                                           |
| Chlordane, trans- (gamma chordane)                    | 5103-74-2  | 5.3E+01                                               | 3.1E+02                                            | 5.1E+01                                        | 2.9E+02                                           |
| Chlorfenvinphos                                       | 470-90-6   | —                                                     | 3.9E+01                                            | —                                              | 2.1E+01                                           |
| Chloride*                                             | 16887-00-6 | —                                                     | —                                                  | —                                              | —                                                 |
| Chlorine                                              | 7782-50-5  | —                                                     | 1.9E+02                                            | —                                              | 9.6E+01                                           |
| Chloro-1,3-butadiene, 2-                              | 126-99-8   | 2.0E+00                                               | 4.3E+02                                            | 1.0E+00                                        | 2.2E+02                                           |
| Chloro-2-propanol, 1-                                 | 127-00-4   | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Chloro-3-methylphenol, 4-                             | 59-50-7    | —                                                     | 3.4E+03                                            | —                                              | 3.4E+03                                           |
| Chloroaniline, p-                                     | 106-47-8   | 9.5E+01                                               | 2.7E+03                                            | 9.5E+01                                        | 2.7E+03                                           |
| Chlorobenzene                                         | 108-90-7   | —                                                     | 1.0E+03                                            | —                                              | 5.4E+02                                           |
| Chlorobenzilate                                       | 510-15-6   | 6.3E+01                                               | 1.4E+04                                            | 5.7E+01                                        | 1.4E+04                                           |
| Chlorobromomethane (bromochloromethane)               | 74-97-5    | —                                                     | 4.1E+04                                            | —                                              | 4.1E+04                                           |
| Chlorodifluoromethane                                 | 75-45-6    | —                                                     | 1.0E+06                                            | —                                              | 5.5E+05                                           |
| Chloroethane (ethyl chloride)                         | 75-00-3    | —                                                     | 1.4E+05                                            | —                                              | 8.7E+04                                           |
| Chloroethanol, 2-                                     | 107-07-3   | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether)     | 110-75-8   | 2.6E+01                                               | 6.4E+00                                            | 2.6E+01                                        | 3.3E+00                                           |
| Chloroform                                            | 67-66-3    | 2.6E+01                                               | 1.7E+03                                            | 1.3E+01                                        | 9.7E+02                                           |
| Chlorohexane, 1-                                      | 544-10-5   | —                                                     | 1.4E+04                                            | —                                              | 8.7E+03                                           |
| Chloromethane (methyl chloride)                       | 74-87-3    | 2.9E+02                                               | 1.3E+03                                            | 1.6E+02                                        | 7.8E+02                                           |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-)     | 90-13-1    | —                                                     | 5.0E+04                                            | —                                              | 5.0E+04                                           |
| Chloronaphthalene, 2- (chloronaphthalene, beta)       | 91-58-7    | —                                                     | 5.0E+04                                            | —                                              | 5.0E+04                                           |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)      | 100-00-5   | 3.0E+03                                               | 7.8E+01                                            | 3.0E+03                                        | 4.2E+01                                           |
| Chlorophenol, 2-                                      | 95-57-8    | —                                                     | 5.1E+03                                            | —                                              | 5.1E+03                                           |
| Chlorophenol, 3-                                      | 108-43-0   | —                                                     | 3.4E+03                                            | —                                              | 3.4E+03                                           |
| Chlorophenol, 4-                                      | 106-48-9   | —                                                     | 3.4E+03                                            | —                                              | 3.4E+03                                           |
| Chlorophenyl phenylether, 4-                          | 7005-72-3  | 9.8E-01                                               | —                                                  | 8.0E-01                                        | —                                                 |
| Chloropropane, 2-                                     | 75-29-6    | —                                                     | 2.0E+03                                            | —                                              | 1.1E+03                                           |
| Chlorothalonil                                        | 1897-45-6  | 1.7E+03                                               | 1.0E+04                                            | 1.7E+03                                        | 1.0E+04                                           |
| Chlorotoluene, o- (2-chlorotoluene)                   | 95-49-8    | —                                                     | 7.8E+03                                            | —                                              | 5.6E+03                                           |
| Chlorotoluene, p- (4-chlorotoluene)                   | 106-43-4   | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Chlorpyrifos                                          | 2921-88-2  | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Chromium (III)                                        | 16065-83-1 | —                                                     | 1.2E+05                                            | —                                              | 7.5E+04                                           |
| Chromium (total)                                      | 7440-47-3  | —                                                     | 1.2E+05                                            | —                                              | 7.5E+04                                           |
| Chromium (VI)                                         | 18540-29-9 | 1.6E+04                                               | 1.0E+03                                            | 8.5E+03                                        | 1.0E+03                                           |
| Chrysene                                              | 218-01-9   | 1.7E+04                                               | —                                                  | 1.7E+04                                        | —                                                 |
| Cobalt                                                | 7440-48-4  | 6.3E+03                                               | 8.7E+03                                            | 3.3E+03                                        | 8.0E+03                                           |
| Copolymer acrylamide                                  | 69418-26-4 | —                                                     | 1.4E+02                                            | —                                              | 1.4E+02                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|----------------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                    |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                    |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Copper                                             | 7440-50-8  | —                                                     | 9.4E+04                                            | —                                              | 9.4E+04                                           |
| Coronene                                           | 191-07-1   | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Coumaphos                                          | 56-72-4    | —                                                     | 4.8E+03                                            | —                                              | 4.8E+03                                           |
| Cresol                                             | 1319-77-3  | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Cresol, m- (3-methylphenol)                        | 108-39-4   | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Cresol, o- (2-methylphenol)                        | 95-48-7    | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Cresol, p- (4-methylphenol)                        | 106-44-5   | —                                                     | 3.4E+03                                            | —                                              | 3.4E+03                                           |
| Crotonaldehyde                                     | 123-73-9   | 1.5E+01                                               | 1.0E+03                                            | 1.5E+01                                        | 1.0E+03                                           |
| Cumene (isopropylbenzene)                          | 98-82-8    | —                                                     | 1.1E+04                                            | —                                              | 6.3E+03                                           |
| Cyanazine                                          | 21725-46-2 | 2.3E+01                                               | 1.4E+03                                            | 2.3E+01                                        | 1.4E+03                                           |
| Cyanide                                            | 57-12-5    | —                                                     | 3.7E+02                                            | —                                              | 2.8E+02                                           |
| Cyanogen                                           | 460-19-5   | —                                                     | 1.7E+01                                            | —                                              | 8.8E+00                                           |
| Cycloate                                           | 1134-23-2  | —                                                     | 3.7E+04                                            | —                                              | 3.7E+04                                           |
| Cyclohexane                                        | 110-82-7   | —                                                     | 1.3E+05                                            | —                                              | 6.5E+04                                           |
| Cyclohexanol                                       | 108-93-0   | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Cyclohexanone                                      | 108-94-1   | —                                                     | 4.9E+04                                            | —                                              | 2.5E+04                                           |
| Cyclohexene, 1-methanol-3-                         | 1679-51-2  | —                                                     | 1.4E+04                                            | —                                              | 1.4E+04                                           |
| Cyclohexene, 4-vinyl-1-                            | 100-40-3   | —                                                     | 5.4E+03                                            | —                                              | 3.1E+03                                           |
| Cyclopentane                                       | 287-92-3   | —                                                     | 5.5E+04                                            | —                                              | 5.0E+04                                           |
| Cyclopentane, methyl-                              | 96-37-7    | —                                                     | 1.8E+04                                            | —                                              | 1.0E+04                                           |
| Cyclopentene                                       | 142-29-0   | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Cyclotetramethylenetetranitramine (HMX)            | 2691-41-0  | —                                                     | 1.2E+04                                            | —                                              | 1.2E+04                                           |
| Cyclotrimethylenetrinitramine (RDX)                | 121-82-4   | 2.4E+02                                               | 2.7E+03                                            | 2.4E+02                                        | 2.7E+03                                           |
| Cymene (isopropyltoluene)                          | 99-87-6    | —                                                     | 1.0E+05                                            | —                                              | 1.0E+05                                           |
| Cymoxanil                                          | 57966-95-7 | —                                                     | 8.9E+03                                            | —                                              | 8.9E+03                                           |
| Dacthal (DCPA)                                     | 1861-32-1  | —                                                     | 6.8E+03                                            | —                                              | 6.8E+03                                           |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)  | 75-99-0    | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| DDD                                                | 72-54-8    | 1.0E+02                                               | —                                                  | 1.0E+02                                        | —                                                 |
| DDE                                                | 72-55-9    | 7.3E+01                                               | —                                                  | 7.3E+01                                        | —                                                 |
| DDT                                                | 50-29-3    | 7.1E+01                                               | 4.4E+02                                            | 6.8E+01                                        | 4.4E+02                                           |
| Demeton                                            | 8065-48-3  | —                                                     | 2.7E+01                                            | —                                              | 2.7E+01                                           |
| Desethylatrazine                                   | 6190-65-4  | —                                                     | 2.4E+04                                            | —                                              | 2.4E+04                                           |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone) | 123-42-2   | —                                                     | 2.7E+04                                            | —                                              | 2.7E+04                                           |
| Diallate                                           | 2303-16-4  | 3.1E+02                                               | —                                                  | 3.1E+02                                        | —                                                 |
| Diazinon                                           | 333-41-5   | —                                                     | 7.9E+01                                            | —                                              | 4.3E+01                                           |
| Dibenz(a,h)acridine                                | 226-36-8   | 1.6E+01                                               | —                                                  | 1.6E+01                                        | —                                                 |
| Dibenz(a,j)acridine                                | 224-42-0   | 2.4E+01                                               | —                                                  | 2.4E+01                                        | —                                                 |
| Dibenz-a,h-anthracene                              | 53-70-3    | 1.7E+01                                               | —                                                  | 1.7E+01                                        | —                                                 |
| Dibenzo(a,e)pyrene                                 | 192-65-4   | 2.6E+00                                               | —                                                  | 2.6E+00                                        | —                                                 |
| Dibenzo(a,h)pyrene                                 | 189-64-0   | 2.6E-01                                               | —                                                  | 2.6E-01                                        | —                                                 |
| Dibenzo(a,i)pyrene                                 | 189-55-9   | 2.6E-01                                               | —                                                  | 2.6E-01                                        | —                                                 |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|-------------------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                       |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                       |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Dibenzofuran                                          | 132-64-9   | —                                                     | 2.7E+03                                            | —                                              | 2.7E+03                                           |
| Dibenzothiophene                                      | 132-65-0   | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Dibromo-3-chloropropane, 1,2-                         | 96-12-8    | 2.6E-01                                               | 1.0E+01                                            | 1.4E-01                                        | 5.6E+00                                           |
| Dibromochloromethane (chlorodibromomethane)           | 124-48-1   | 3.4E+02                                               | 2.0E+04                                            | 3.4E+02                                        | 2.0E+04                                           |
| Dibromofluoromethane                                  | 1868-53-7  | —                                                     | 2.0E+05                                            | —                                              | 2.0E+05                                           |
| Dicamba                                               | 1918-00-9  | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Dichlormid                                            | 37764-25-3 | —                                                     | 1.7E+04                                            | —                                              | 1.7E+04                                           |
| Dichloro-2-butene, 1,4-                               | 764-41-0   | 3.3E-01                                               | —                                                  | 1.7E-01                                        | —                                                 |
| Dichloro-2-butene, 1,4- trans                         | 110-57-6   | 3.4E-01                                               | —                                                  | 1.8E-01                                        | —                                                 |
| Dichlorobenzene, 1,2-                                 | 95-50-1    | —                                                     | 1.1E+03                                            | —                                              | 5.7E+02                                           |
| Dichlorobenzene, 1,3-                                 | 541-73-1   | —                                                     | 1.7E+02                                            | —                                              | 8.8E+01                                           |
| Dichlorobenzene, 1,4-                                 | 106-46-7   | 1.2E+03                                               | 1.6E+04                                            | 1.2E+03                                        | 8.5E+03                                           |
| Dichlorobenzidine, 3,3-                               | 91-94-1    | 4.2E+01                                               | —                                                  | 4.2E+01                                        | —                                                 |
| Dichlorobutane, 2,3-                                  | 7581-97-7  | —                                                     | 1.5E+02                                            | —                                              | 7.7E+01                                           |
| Dichlorodifluoromethane                               | 75-71-8    | —                                                     | 2.1E+03                                            | —                                              | 1.1E+03                                           |
| Dichloroethane, 1,1-                                  | 75-34-3    | —                                                     | 4.1E+04                                            | —                                              | 2.3E+04                                           |
| Dichloroethane, 1,2-                                  | 107-06-2   | 1.1E+02                                               | 9.3E+02                                            | 7.1E+01                                        | 4.8E+02                                           |
| Dichloroethylene, 1,1-                                | 75-35-4    | —                                                     | 6.4E+03                                            | —                                              | 3.5E+03                                           |
| Dichloroethylene, cis-1,2-                            | 156-59-2   | —                                                     | 7.9E+02                                            | —                                              | 5.0E+02                                           |
| Dichloroethylene, trans-1,2                           | 156-60-5   | —                                                     | 1.2E+03                                            | —                                              | 6.4E+02                                           |
| Dichlorofluoromethane                                 | 75-43-4    | —                                                     | 2.0E+05                                            | —                                              | 2.0E+05                                           |
| Dichlorophenol, 2,3-                                  | 576-24-9   | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Dichlorophenol, 2,4-                                  | 120-83-2   | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Dichlorophenol, 2,5-                                  | 583-78-8   | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Dichlorophenol, 2,6-                                  | 87-65-0    | —                                                     | 6.8E+02                                            | —                                              | 6.8E+02                                           |
| Dichlorophenol, 3,4-                                  | 95-77-2    | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Dichlorophenol, 3,5-                                  | 591-35-5   | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)       | 94-82-6    | —                                                     | 5.5E+03                                            | —                                              | 5.5E+03                                           |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)              | 94-75-7    | —                                                     | 1.6E+05                                            | —                                              | 1.6E+05                                           |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid) | 120-36-5   | —                                                     | 6.8E+03                                            | —                                              | 6.8E+03                                           |
| Dichloropropane, 1,2-                                 | 78-87-5    | 3.5E+02                                               | 8.6E+01                                            | 2.3E+02                                        | 4.4E+01                                           |
| Dichloropropane, 1,3-                                 | 142-28-9   | 9.9E+01                                               | 4.2E+02                                            | 6.1E+01                                        | 2.2E+02                                           |
| Dichloropropane, 2,2-                                 | 594-20-7   | 4.2E+02                                               | 8.6E+01                                            | 4.2E+02                                        | 4.4E+01                                           |
| Dichloropropanol, 2,3-                                | 616-23-9   | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Dichloropropene, 1,1-                                 | 563-58-6   | 9.9E+01                                               | 4.2E+02                                            | 6.1E+01                                        | 2.2E+02                                           |
| Dichloropropene, 1,3- (mixed isomers)                 | 542-75-6   | 9.9E+01                                               | 4.2E+02                                            | 6.1E+01                                        | 2.2E+02                                           |
| Dichloropropene, cis 1,3-                             | 10061-01-5 | 5.3E+01                                               | 8.3E+01                                            | 5.3E+01                                        | 7.0E+01                                           |
| Dichloropropene, trans 1,3-                           | 10061-02-6 | 9.9E+01                                               | 4.2E+02                                            | 6.1E+01                                        | 2.2E+02                                           |
| Dichlorvos                                            | 62-73-7    | 6.6E+01                                               | 3.4E+02                                            | 6.6E+01                                        | 3.4E+02                                           |
| Dicrotophos (bidrin)                                  | 141-66-2   | —                                                     | 6.8E+01                                            | —                                              | 6.8E+01                                           |
| Dicyclopentadiene                                     | 77-73-6    | —                                                     | 8.2E+04                                            | —                                              | 8.2E+04                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                           | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|---------------------------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                               |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                               |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Dieldrin                                                      | 60-57-1    | 1.2E+00                                               | 3.4E+01                                            | 1.1E+00                                        | 3.4E+01                                           |
| Diethanolamine                                                | 111-42-2   | —                                                     | 3.2E+02                                            | —                                              | 3.0E+02                                           |
| Diethyldithiocarbamate, sodium salt                           | 148-18-5   | 1.1E+02                                               | 3.1E+04                                            | 1.1E+02                                        | 3.1E+04                                           |
| Diethyl phthalate                                             | 84-66-2    | —                                                     | 5.5E+05                                            | —                                              | 5.5E+05                                           |
| Diethylene glycol                                             | 111-46-6   | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Diethylene glycol monobutyl ether                             | 112-34-5   | —                                                     | 2.8E+01                                            | —                                              | 1.5E+01                                           |
| Diethylhexyl adipate                                          | 103-23-1   | 1.6E+04                                               | 4.1E+05                                            | 1.6E+04                                        | 4.1E+05                                           |
| Diethylstilbestrol                                            | 56-53-1    | 4.1E-03                                               | —                                                  | 4.1E-03                                        | —                                                 |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)                   | 107-39-1   | —                                                     | 4.0E+03                                            | —                                              | 2.1E+03                                           |
| Diisopropylbenzene, p-                                        | 100-18-5   | —                                                     | 6.8E+03                                            | —                                              | 6.8E+03                                           |
| Diisopropyl ether (2,2'-oxybis-propane)                       | 108-20-3   | —                                                     | 1.3E+04                                            | —                                              | 7.2E+03                                           |
| Dimethenamid                                                  | 87674-68-8 | —                                                     | 1.0E+04                                            | —                                              | 1.0E+04                                           |
| Dimethoate                                                    | 60-51-5    | —                                                     | 1.4E+02                                            | —                                              | 1.4E+02                                           |
| Dimethoxybenzidine, 3,3'-                                     | 119-90-4   | 1.4E+03                                               | —                                                  | 1.4E+03                                        | —                                                 |
| Dimethyl-2-nitrobenzene, 1,3-                                 | 81-20-9    | —                                                     | 1.0E+03                                            | —                                              | 8.1E+02                                           |
| Dimethyl-3-nitrobenzene, 1,2-                                 | 83-41-0    | —                                                     | 9.7E+02                                            | —                                              | 7.7E+02                                           |
| Dimethyl-4-nitrobenzene, 1-2-                                 | 99-51-4    | —                                                     | 9.8E+02                                            | —                                              | 7.8E+02                                           |
| Dimethyl-5-nitrobenzene, 1,3-                                 | 99-12-7    | —                                                     | 9.4E+02                                            | —                                              | 7.3E+02                                           |
| Dimethylphenethylamine, alpha, alpha-                         | 122-09-8   | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Dimethyl phenol, 2,4-                                         | 105-67-9   | —                                                     | 1.4E+04                                            | —                                              | 1.4E+04                                           |
| Dimethylaminoazobenzene, p-                                   | 60-11-7    | —                                                     | 6.8E+00                                            | —                                              | 6.8E+00                                           |
| Dimethylbenz-a-anthracene, 7,12-                              | 57-97-6    | 6.9E-02                                               | —                                                  | 6.9E-02                                        | —                                                 |
| Dimethylbenzidine, 3,3'-                                      | 119-93-7   | 1.7E+00                                               | —                                                  | 1.7E+00                                        | —                                                 |
| Dimethylformamide, N,N-                                       | 68-12-2    | —                                                     | 4.3E+03                                            | —                                              | 2.3E+03                                           |
| Dimethylnaphthalene, 1,3-                                     | 575-41-7   | —                                                     | 2.5E+04                                            | —                                              | 2.5E+04                                           |
| Dimethylphthalate                                             | 131-11-3   | —                                                     | 5.5E+05                                            | —                                              | 5.5E+05                                           |
| Di-n-butyl phthalate                                          | 84-74-2    | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)        | 534-52-1   | —                                                     | 6.8E+01                                            | —                                              | 6.8E+01                                           |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)                   | 99-65-0    | —                                                     | 6.8E+01                                            | —                                              | 6.8E+01                                           |
| Dinitrobenzene, 1,4-                                          | 100-25-4   | —                                                     | 6.8E+01                                            | —                                              | 6.8E+01                                           |
| Dinitrophenol, 2,4-                                           | 51-28-5    | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Dinitrophenol, 2,5-                                           | 329-71-5   | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Dinitrotoluene, 2,4-                                          | 121-14-2   | 2.8E+01                                               | 1.4E+03                                            | 2.8E+01                                        | 1.4E+03                                           |
| Dinitrotoluene, 2,6-                                          | 606-20-2   | 2.8E+01                                               | 6.8E+02                                            | 2.8E+01                                        | 6.8E+02                                           |
| Di-n-octyl phthalate                                          | 117-84-0   | —                                                     | 6.8E+03                                            | —                                              | 6.8E+03                                           |
| Dinoseb                                                       | 88-85-7    | —                                                     | 6.8E+02                                            | —                                              | 6.8E+02                                           |
| Dioxane 1,4-                                                  | 123-91-1   | 1.5E+02                                               | 5.0E+03                                            | 1.0E+02                                        | 2.8E+03                                           |
| Dioxin (as 2,3,7,8-TCDD toxicity equivalent quotients (TEQs)) | 1746-01-6  | —                                                     | 6.2E-04                                            | —                                              | 6.2E-04                                           |
| Diphenyl ether                                                | 101-84-8   | —                                                     | 4.2E+03                                            | —                                              | 4.2E+03                                           |
| Diphenylamine                                                 | 122-39-4   | —                                                     | 1.7E+04                                            | —                                              | 1.7E+04                                           |
| Diphenylhydrazine, 1,2-                                       | 122-66-7   | 2.2E+01                                               | —                                                  | 2.0E+01                                        | —                                                 |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                         | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|-------------------------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                             |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                             |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Dipropylene glycol                                          | 110-98-5   | —                                                     | 8.2E+04                                            | —                                              | 8.2E+04                                           |
| Diquat                                                      | 85-00-7    | —                                                     | 1.5E+03                                            | —                                              | 1.5E+03                                           |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt) | 142-73-4   | —                                                     | 6.8E+03                                            | —                                              | 6.8E+03                                           |
| Disulfoton                                                  | 298-04-4   | —                                                     | 2.7E+01                                            | —                                              | 2.7E+01                                           |
| Diuron                                                      | 330-54-1   | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Dodecylphenol, 4-                                           | 104-43-8   | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Endosulfan                                                  | 115-29-7   | —                                                     | 4.1E+03                                            | —                                              | 4.1E+03                                           |
| Endosulfan I                                                | 959-98-8   | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Endosulfan II                                               | 33213-65-9 | —                                                     | 4.1E+03                                            | —                                              | 4.1E+03                                           |
| Endosulfan sulfate                                          | 1031-07-8  | —                                                     | 4.1E+03                                            | —                                              | 4.1E+03                                           |
| Endothall                                                   | 145-73-3   | —                                                     | 1.4E+04                                            | —                                              | 1.4E+04                                           |
| Endrin                                                      | 72-20-8    | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Endrin aldehyde                                             | 7421-93-4  | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Endrin ketone                                               | 53494-70-5 | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Epichlorohydrin                                             | 106-89-8   | 6.6E+02                                               | 3.7E+01                                            | 3.8E+02                                        | 1.9E+01                                           |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate)       | 2104-64-5  | —                                                     | 6.8E+00                                            | —                                              | 6.8E+00                                           |
| Esfenvalerate                                               | 66230-04-4 | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Ethalfuralin (sonolan)                                      | 55283-68-6 | 2.1E+02                                               | 2.7E+04                                            | 2.1E+02                                        | 2.7E+04                                           |
| Ethanol                                                     | 64-17-5    | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Ethanol, 2-amino-                                           | 141-43-5   | —                                                     | 9.0E+02                                            | —                                              | 7.5E+02                                           |
| Ethanol, 2-(2-aminoethoxy)-                                 | 929-06-6   | —                                                     | 3.4E+02                                            | —                                              | 3.4E+02                                           |
| Ethanol, 2-(2-ethoxyethoxy)-                                | 111-90-0   | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Ethanol, 2-(methylamino)-                                   | 109-83-1   | —                                                     | 4.9E+03                                            | —                                              | 3.3E+03                                           |
| Ethion                                                      | 563-12-2   | —                                                     | 3.4E+02                                            | —                                              | 3.4E+02                                           |
| Ethoprop                                                    | 13194-48-4 | 6.8E+02                                               | 6.8E+01                                            | 6.8E+02                                        | 6.8E+01                                           |
| Ethoxy ethanol, 2-                                          | 110-80-5   | —                                                     | 2.5E+04                                            | —                                              | 1.5E+04                                           |
| Ethyl acetate                                               | 141-78-6   | —                                                     | 5.1E+03                                            | —                                              | 2.6E+03                                           |
| Ethyl acrylate                                              | 140-88-5   | 6.0E+02                                               | 3.2E+02                                            | 6.0E+02                                        | 1.7E+02                                           |
| Ethyl benzene                                               | 100-41-4   | —                                                     | 2.9E+04                                            | —                                              | 1.7E+04                                           |
| Ethyl dipropylthiocarbamate, S-                             | 759-94-4   | —                                                     | 1.7E+04                                            | —                                              | 1.7E+04                                           |
| Ethyl ether                                                 | 60-29-7    | —                                                     | 2.0E+05                                            | —                                              | 2.0E+05                                           |
| Ethyl methacrylate                                          | 97-63-2    | —                                                     | 8.9E+03                                            | —                                              | 4.8E+03                                           |
| Ethyl methanesulfonate                                      | 62-50-0    | 9.8E+01                                               | —                                                  | 6.7E+01                                        | —                                                 |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)            | 637-92-3   | —                                                     | 8.8E+02                                            | —                                              | 7.8E+02                                           |
| Ethyl-1-hexanol, 2-                                         | 104-76-7   | —                                                     | 1.0E+05                                            | —                                              | 1.0E+05                                           |
| Ethyl-2-hexenal, 2-                                         | 645-62-5   | —                                                     | 1.5E+05                                            | —                                              | 1.5E+05                                           |
| Ethyl-2-methyl benzene, 1-                                  | 611-14-3   | —                                                     | 9.6E+03                                            | —                                              | 5.4E+03                                           |
| Ethyl-4-methyl benzene, 1-                                  | 622-96-8   | —                                                     | 8.4E+03                                            | —                                              | 4.7E+03                                           |
| Ethylene*                                                   | 74-85-1    | —                                                     | —                                                  | —                                              | —                                                 |
| Ethylene dibromide (dibromoethane, 1,2- )                   | 106-93-4   | 8.7E+00                                               | 1.9E+03                                            | 6.3E+00                                        | 1.1E+03                                           |
| Ethylene glycol                                             | 107-21-1   | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|---------------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                   |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                   |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Ethylene oxide                                    | 75-21-8    | 2.6E+01                                               | —                                                  | 2.5E+01                                        | —                                                 |
| Ethylene thiourea                                 | 96-45-7    | 1.7E+02                                               | 5.5E+01                                            | 1.7E+02                                        | 5.5E+01                                           |
| Ethylenediamine                                   | 107-15-3   | —                                                     | 9.2E+04                                            | —                                              | 9.2E+04                                           |
| Ethylenimine                                      | 151-56-4   | 1.5E-01                                               | —                                                  | 9.0E-02                                        | —                                                 |
| Ethylhexyl acrylate, 2-                           | 103-11-7   | 4.0E+02                                               | —                                                  | 4.0E+02                                        | —                                                 |
| Famphur                                           | 52-85-7    | —                                                     | 2.0E+01                                            | —                                              | 2.0E+01                                           |
| Fensulfothion                                     | 115-90-2   | —                                                     | 6.8E+02                                            | —                                              | 6.8E+02                                           |
| Fenthion                                          | 55-38-9    | —                                                     | 4.8E+01                                            | —                                              | 4.8E+01                                           |
| Fenuron                                           | 101-42-8   | —                                                     | 4.8E+04                                            | —                                              | 4.8E+04                                           |
| Fluoranthene                                      | 206-44-0   | —                                                     | 2.5E+04                                            | —                                              | 2.5E+04                                           |
| Fluorene                                          | 86-73-7    | —                                                     | 2.5E+04                                            | —                                              | 2.5E+04                                           |
| Fluorine (soluble fluoride)                       | 7782-41-4  | —                                                     | 5.8E+04                                            | —                                              | 5.8E+04                                           |
| Fluorochloridone                                  | 61213-25-0 | —                                                     | 5.1E+03                                            | —                                              | 5.1E+03                                           |
| Fonofos                                           | 944-22-9   | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Formaldehyde                                      | 50-00-0    | —                                                     | 1.4E+03                                            | —                                              | 7.1E+02                                           |
| Formic acid                                       | 64-18-6    | —                                                     | 3.0E+02                                            | —                                              | 1.5E+02                                           |
| Furan                                             | 110-00-9   | —                                                     | 1.0E+03                                            | —                                              | 1.0E+03                                           |
| Furfural                                          | 98-01-1    | —                                                     | 3.1E+03                                            | —                                              | 3.1E+03                                           |
| Glycidylaldehyde                                  | 765-34-4   | —                                                     | 1.4E+02                                            | —                                              | 8.5E+01                                           |
| Glyphosate                                        | 1071-83-6  | —                                                     | 6.8E+05                                            | —                                              | 6.8E+05                                           |
| Heptachlor                                        | 76-44-8    | 3.3E+00                                               | 3.4E+02                                            | 2.8E+00                                        | 3.4E+02                                           |
| Heptachlor epoxide                                | 1024-57-3  | 2.0E+00                                               | 8.9E+00                                            | 1.9E+00                                        | 8.9E+00                                           |
| Heptane, n-                                       | 142-82-5   | —                                                     | 4.7E+04                                            | —                                              | 3.8E+04                                           |
| Heptanoic acid, n-                                | 111-14-8   | —                                                     | 1.7E+02                                            | —                                              | 8.8E+01                                           |
| Hexachlorobenzene                                 | 118-74-1   | 8.7E+00                                               | 5.5E+02                                            | 6.9E+00                                        | 5.5E+02                                           |
| Hexachlorobutadiene                               | 87-68-3    | 4.1E+01                                               | 6.8E+02                                            | 2.3E+01                                        | 6.8E+02                                           |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | 3.3E+00                                               | 6.8E+03                                            | 2.9E+00                                        | 6.8E+03                                           |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | 1.2E+01                                               | —                                                  | 1.1E+01                                        | —                                                 |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | 1.2E+01                                               | 2.6E+02                                            | 1.2E+01                                        | 2.6E+02                                           |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | 1.8E+01                                               | 2.6E+02                                            | 1.8E+01                                        | 2.6E+02                                           |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | 1.2E+01                                               | —                                                  | 1.1E+01                                        | —                                                 |
| Hexachlorocyclopentadiene                         | 77-47-4    | —                                                     | 2.0E+01                                            | —                                              | 1.0E+01                                           |
| Hexachloroethane                                  | 67-72-1    | 4.8E+02                                               | 4.5E+02                                            | 4.8E+02                                        | 4.2E+02                                           |
| Hexachlorophene                                   | 70-30-4    | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Hexachloropropylene                               | 1888-71-7  | 4.8E+02                                               | 4.5E+02                                            | 4.8E+02                                        | 4.2E+02                                           |
| Hexanal, 2-ethyl-                                 | 123-05-7   | —                                                     | 1.0E+05                                            | —                                              | 1.0E+05                                           |
| Hexane, n-                                        | 110-54-3   | —                                                     | 1.2E+04                                            | —                                              | 6.6E+03                                           |
| Hexanediamine, 1,6-                               | 124-09-4   | —                                                     | 3.4E+03                                            | —                                              | 3.4E+03                                           |
| Hexanedinitrile                                   | 111-69-3   | —                                                     | 5.6E+02                                            | —                                              | 4.1E+02                                           |
| Hexanediol, 1,6-                                  | 629-11-8   | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Hexanoic acid                                     | 142-62-1   | —                                                     | 1.9E+02                                            | —                                              | 9.8E+01                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | TotSoilComb<br>(includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|----------------------------------------------------|------------|----------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                    |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)                      | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
|                                                    |            |                                                                      |                                                    |                                                |                                                   |
| Hexanone, 2-                                       | 591-78-6   | —                                                                    | 1.1E+03                                            | —                                              | 5.9E+02                                           |
| Hexazinone                                         | 51235-04-2 | —                                                                    | 2.2E+04                                            | —                                              | 2.2E+04                                           |
| Hexene, 1-                                         | 592-41-6   | —                                                                    | 2.3E+03                                            | —                                              | 1.2E+03                                           |
| Hexene, cis-2-                                     | 7688-21-3  | —                                                                    | 2.3E+03                                            | —                                              | 1.2E+03                                           |
| Hexylene glycol (2-methyl-2,4-pentanediol)         | 107-41-5   | —                                                                    | 2.0E+05                                            | —                                              | 2.0E+05                                           |
| Hydrazine                                          | 302-01-2   | 7.2E-01                                                              | 4.1E+00                                            | 3.8E-01                                        | 2.1E+00                                           |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)     | 1191-25-9  | —                                                                    | 2.2E+02                                            | —                                              | 1.2E+02                                           |
| Hydrogen chloride (hydrochloric acid)*             | 7647-01-0  | —                                                                    | —                                                  | —                                              | —                                                 |
| Hydroquinone                                       | 123-31-9   | 3.2E+02                                                              | 2.7E+04                                            | 3.2E+02                                        | 2.7E+04                                           |
| Indene                                             | 95-13-6    | —                                                                    | 1.6E+02                                            | —                                              | 8.0E+01                                           |
| Indeno-1,2,3-cd-pyrene                             | 193-39-5   | 1.7E+02                                                              | —                                                  | 1.7E+02                                        | —                                                 |
| Iron*                                              | 7439-89-6  | —                                                                    | —                                                  | —                                              | —                                                 |
| Isoamyl alcohol                                    | 123-51-3   | —                                                                    | 5.1E+03                                            | —                                              | 5.1E+03                                           |
| Isobutyl alcohol                                   | 78-83-1    | —                                                                    | 3.1E+05                                            | —                                              | 3.1E+05                                           |
| Isobutylene (2-methyl-1-propene)                   | 115-11-7   | —                                                                    | 3.8E+03                                            | —                                              | 3.8E+03                                           |
| Isobutyric acid (2-methylpropanoic acid)           | 79-31-2    | —                                                                    | 3.4E+05                                            | —                                              | 3.4E+05                                           |
| Isodecanol                                         | 25339-17-7 | —                                                                    | 1.1E+03                                            | —                                              | 1.1E+03                                           |
| Isodrin                                            | 465-73-6   | 1.1E-01                                                              | 2.0E+00                                            | 1.0E-01                                        | 2.0E+00                                           |
| Isopentane                                         | 78-78-4    | —                                                                    | 5.5E+04                                            | —                                              | 5.0E+04                                           |
| Isophorone                                         | 78-59-1    | 2.0E+04                                                              | 1.4E+05                                            | 2.0E+04                                        | 1.4E+05                                           |
| Isopropyl acetate                                  | 108-21-4   | —                                                                    | 7.2E+04                                            | —                                              | 7.2E+04                                           |
| Isopropyl alcohol                                  | 67-63-0    | —                                                                    | 1.3E+04                                            | —                                              | 6.9E+03                                           |
| Isosafrole                                         | 120-58-1   | 5.5E+01                                                              | —                                                  | 4.1E+01                                        | —                                                 |
| Kelthane (dicofol)                                 | 115-32-2   | —                                                                    | 4.1E+03                                            | —                                              | 4.1E+03                                           |
| Kepone (chlordecone)                               | 143-50-0   | 1.9E+00                                                              | 2.0E+02                                            | 1.8E+00                                        | 2.0E+02                                           |
| Lead (inorganic)                                   | 7439-92-1  | —                                                                    | —                                                  | —                                              | —                                                 |
| Leptophos                                          | 21609-90-5 | —                                                                    | 3.2E+00                                            | —                                              | 3.0E+00                                           |
| Limonene, d-*                                      | 5989-27-5  | —                                                                    | —                                                  | —                                              | —                                                 |
| Lithium                                            | 7439-93-2  | —                                                                    | 6.8E+03                                            | —                                              | 6.8E+03                                           |
| Magnesium*                                         | 7439-95-4  | —                                                                    | —                                                  | —                                              | —                                                 |
| Malathion                                          | 121-75-5   | —                                                                    | 2.8E+02                                            | —                                              | 1.4E+02                                           |
| Maleic anhydride                                   | 108-31-6   | —                                                                    | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Maleic hydrazide                                   | 123-33-1   | —                                                                    | 3.4E+05                                            | —                                              | 3.4E+05                                           |
| Malononitrile                                      | 109-77-3   | —                                                                    | 6.8E+01                                            | —                                              | 6.8E+01                                           |
| Mancozeb                                           | 8018-01-7  | —                                                                    | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Manganese                                          | 7439-96-5  | —                                                                    | 7.3E+04                                            | —                                              | 6.9E+04                                           |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | —                                                                    | 3.4E+02                                            | —                                              | 3.4E+02                                           |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | —                                                                    | 6.8E+02                                            | —                                              | 6.8E+02                                           |
| Mercury (pH = 4.9) <sup>1</sup>                    | 7439-97-6  | —                                                                    | 6.2E+00                                            | —                                              | 3.3E+00                                           |
| Mercury (pH=6.8) <sup>1</sup>                      | 7439-97-6  | —                                                                    | 1.9E+01                                            | —                                              | 1.1E+01                                           |
| Merphos                                            | 150-50-5   | —                                                                    | 2.0E+01                                            | —                                              | 2.0E+01                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|-----------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                               |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                               |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Methacrylic acid (2-methyl-2-propenoic acid)  | 79-41-4    | —                                                     | 1.0E+04                                            | —                                              | 1.0E+04                                           |
| Methacrylonitrile                             | 126-98-7   | —                                                     | 8.0E+02                                            | —                                              | 4.2E+02                                           |
| Methanol                                      | 67-56-1    | —                                                     | 3.7E+05                                            | —                                              | 2.1E+05                                           |
| Methapyrilene                                 | 91-80-5    | 4.1E+00                                               | —                                                  | 4.1E+00                                        | —                                                 |
| Methomyl                                      | 16752-77-5 | —                                                     | 1.7E+04                                            | —                                              | 1.7E+04                                           |
| Methoxychlor                                  | 72-43-5    | —                                                     | 3.4E+03                                            | —                                              | 3.4E+03                                           |
| Methoxyethanol, 2-                            | 109-86-4   | —                                                     | 4.2E+02                                            | —                                              | 2.2E+02                                           |
| Methyl acetate (acetic acid, methyl ester)    | 79-20-9    | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Methyl acrylate                               | 96-33-3    | —                                                     | 3.6E+02                                            | —                                              | 2.0E+02                                           |
| Methyl amyl ketone (2-heptanone)              | 110-43-0   | —                                                     | 3.8E+04                                            | —                                              | 3.1E+04                                           |
| Methyl chrysene, 1-                           | 3351-28-8  | 2.4E+03                                               | —                                                  | 2.4E+03                                        | —                                                 |
| Methyl chrysene, 2-                           | 3351-32-4  | 2.4E+03                                               | —                                                  | 2.4E+03                                        | —                                                 |
| Methyl chrysene, 6-                           | 1705-85-7  | 2.4E+02                                               | —                                                  | 2.4E+02                                        | —                                                 |
| Methyl cyclohexane                            | 108-87-2   | —                                                     | 6.4E+04                                            | —                                              | 3.3E+04                                           |
| Methyl ethyl ketone (2-butanone)              | 78-93-3    | —                                                     | 1.9E+05                                            | —                                              | 1.2E+05                                           |
| Methyl iodide (iodomethane)                   | 74-88-4    | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Methyl isobutyl ketone (4-methyl-2-pentanone) | 108-10-1   | —                                                     | 4.1E+04                                            | —                                              | 2.8E+04                                           |
| Methyl mercury                                | 22967-92-6 | —                                                     | 9.7E+01                                            | —                                              | 9.7E+01                                           |
| Methyl methacrylate                           | 80-62-6    | —                                                     | 1.5E+04                                            | —                                              | 7.7E+03                                           |
| Methyl methanesulfonate                       | 66-27-3    | 9.5E+01                                               | —                                                  | 6.4E+01                                        | —                                                 |
| Methyl parathion                              | 298-00-0   | —                                                     | 1.7E+02                                            | —                                              | 1.7E+02                                           |
| Methyl-1-butene, 2-                           | 563-46-2   | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| Methyl-1-propanal, 2- (isobutyraldehyde)      | 78-84-2    | —                                                     | 4.1E+04                                            | —                                              | 4.1E+04                                           |
| Methyl-2-butene, 2-                           | 513-35-9   | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| Methyl-2-pentenal, 2-                         | 623-36-9   | 1.5E+01                                               | —                                                  | 1.5E+01                                        | —                                                 |
| Methylcholanthrene, 3-                        | 56-49-5    | 7.9E-01                                               | —                                                  | 7.9E-01                                        | —                                                 |
| Methylene bromide (dibromomethane)            | 74-95-3    | 3.8E+03                                               | 1.1E+02                                            | 3.8E+03                                        | 5.9E+01                                           |
| Methylene chloride (dichloromethane)          | 75-09-2    | 2.0E+04                                               | 1.2E+04                                            | 1.1E+04                                        | 8.6E+03                                           |
| Methylene-bis (2-chloroaniline) 4,4'-         | 101-14-4   | 1.8E+02                                               | 1.4E+03                                            | 1.8E+02                                        | 1.4E+03                                           |
| Methylmercury hydroxide                       | 1184-57-2  | —                                                     | 6.8E+01                                            | —                                              | 6.8E+01                                           |
| Methylnaphthalene, 1-                         | 90-12-0    | 6.0E+02                                               | 4.3E+04                                            | 6.0E+02                                        | 4.3E+04                                           |
| Methylnaphthalene, 2-                         | 91-57-6    | —                                                     | 2.5E+03                                            | —                                              | 2.5E+03                                           |
| Methylpyrrolidone, N-                         | 872-50-4   | —                                                     | 1.4E+04                                            | —                                              | 1.4E+04                                           |
| Methylstyrene, alpha-                         | 98-83-9    | —                                                     | 6.3E+02                                            | —                                              | 3.3E+02                                           |
| Methyltetrahydrofuran, 2-                     | 96-47-9    | 2.9E+02                                               | 2.0E+05                                            | 1.6E+02                                        | 2.0E+05                                           |
| Methyltetrahydropyran, 2-                     | 10141-72-7 | 3.3E+02                                               | 2.0E+05                                            | 1.8E+02                                        | 2.0E+05                                           |
| Metolachlor                                   | 51218-45-2 | —                                                     | 1.0E+05                                            | —                                              | 1.0E+05                                           |
| Metribuzin                                    | 21087-64-9 | —                                                     | 1.7E+04                                            | —                                              | 1.7E+04                                           |
| Mirex                                         | 2385-85-5  | —                                                     | 1.4E+02                                            | —                                              | 1.4E+02                                           |
| Molinate                                      | 2212-67-1  | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Molybdenum                                    | 7439-98-7  | —                                                     | 4.5E+03                                            | —                                              | 4.5E+03                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern            | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|--------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Monocrotophos                  | 2157-98-4  | —                                                     | 4.1E+02                                            | —                                              | 4.1E+02                                           |
| Morpholine                     | 110-91-8   | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Morpholine, N-butyl-           | 1005-67-0  | —                                                     | 1.6E+03                                            | —                                              | 1.6E+03                                           |
| MTBE (methyl tert-butyl ether) | 1634-04-4  | 2.0E+03                                               | 8.8E+03                                            | 1.1E+03                                        | 7.8E+03                                           |
| Naled                          | 300-76-5   | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Naphthalene                    | 91-20-3    | —                                                     | 3.6E+02                                            | —                                              | 1.9E+02                                           |
| Naphthoquinone, 1,4-           | 130-15-4   | —                                                     | 4.8E+03                                            | —                                              | 4.8E+03                                           |
| Naphthylamine, 1-              | 134-32-7   | —                                                     | 1.4E+04                                            | —                                              | 1.4E+04                                           |
| Naphthylamine, 2-              | 91-59-8    | 1.1E+01                                               | —                                                  | 1.1E+01                                        | —                                                 |
| Napropamide                    | 15299-99-7 | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Neopentyl glycol               | 126-30-7   | —                                                     | 2.0E+05                                            | —                                              | 2.0E+05                                           |
| Nickel and compounds           | 7440-02-0  | 2.2E+05                                               | 8.8E+03                                            | 1.1E+05                                        | 8.6E+03                                           |
| Nitrate-N                      | 14797-55-8 | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Nitrite-N                      | 14797-65-0 | —                                                     | 9.7E+04                                            | —                                              | 9.7E+04                                           |
| Nitroaniline, 2-               | 88-74-4    | —                                                     | 5.0E+01                                            | —                                              | 2.9E+01                                           |
| Nitroaniline, 3-               | 99-09-2    | 5.0E+02                                               | 5.9E+01                                            | 5.0E+02                                        | 3.6E+01                                           |
| Nitroaniline, 4-               | 100-01-6   | 9.5E+02                                               | 1.0E+03                                            | 9.5E+02                                        | 6.6E+02                                           |
| Nitrobenzene                   | 98-95-3    | 1.1E+02                                               | 1.4E+02                                            | 5.7E+01                                        | 7.7E+01                                           |
| Nitroglycerin                  | 55-63-0    | 1.1E+03                                               | 6.8E+01                                            | 1.1E+03                                        | 6.8E+01                                           |
| Nitrophenol, 2-                | 88-75-5    | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Nitrophenol, 3-                | 554-84-7   | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Nitrophenol, 4-                | 100-02-7   | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Nitropropane, 2-               | 79-46-9    | 1.0E+00                                               | 1.1E+02                                            | 5.3E-01                                        | 8.7E+01                                           |
| Nitroquinoline-N-oxide, 4-     | 56-57-5    | 1.2E+00                                               | —                                                  | 9.0E-01                                        | —                                                 |
| Nitrosodiethanolamine          | 1116-54-7  | 6.8E+00                                               | —                                                  | 6.8E+00                                        | —                                                 |
| Nitrosodiethylamine, n-        | 55-18-5    | 7.0E-02                                               | —                                                  | 4.4E-02                                        | —                                                 |
| Nitrosodimethylamine, n-       | 62-75-9    | 2.1E-01                                               | 3.6E+00                                            | 1.3E-01                                        | 2.4E+00                                           |
| Nitrosodi-n-butylamine, n-     | 924-16-3   | 1.2E+00                                               | —                                                  | 7.1E-01                                        | —                                                 |
| Nitrosodi-n-propylamine, n-    | 621-64-7   | 1.4E+00                                               | —                                                  | 1.4E+00                                        | —                                                 |
| Nitrosodiphenylamine           | 86-30-6    | 1.9E+03                                               | —                                                  | 1.9E+03                                        | —                                                 |
| Nitroso-methyl-ethyl-amine, n- | 10595-95-6 | 1.3E+00                                               | —                                                  | 1.3E+00                                        | —                                                 |
| Nitrosomorpholine, N-          | 59-89-2    | 1.4E+00                                               | —                                                  | 9.7E-01                                        | —                                                 |
| Nitroso-n-ethylurea, n-        | 759-73-9   | 1.4E-01                                               | —                                                  | 1.4E-01                                        | —                                                 |
| Nitrosopiperidine, N-          | 100-75-4   | 1.1E+00                                               | —                                                  | 7.4E-01                                        | —                                                 |
| Nitrosopyrrolidine, n-         | 930-55-2   | 4.7E+00                                               | —                                                  | 3.2E+00                                        | —                                                 |
| Nitrotoluene, m-               | 99-08-1    | —                                                     | 6.8E+03                                            | —                                              | 6.8E+03                                           |
| Nitrotoluene, o-               | 88-72-2    | 8.7E+01                                               | 6.1E+02                                            | 8.7E+01                                        | 6.1E+02                                           |
| Nitrotoluene, p-               | 99-99-0    | 1.2E+03                                               | 2.7E+03                                            | 1.2E+03                                        | 2.7E+03                                           |
| Nonachlor, cis-                | 5103-73-1  | 5.3E+01                                               | 3.2E+02                                            | 5.2E+01                                        | 3.0E+02                                           |
| Nonachlor, trans-              | 39765-80-5 | 5.3E+01                                               | 3.2E+02                                            | 5.2E+01                                        | 3.0E+02                                           |
| Nonanal                        | 124-19-6   | —                                                     | 1.4E+05                                            | —                                              | 1.4E+05                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                                              | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|----------------------------------------------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                                                  |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                                                  |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Nonene, 1-n                                                                      | 124-11-8   | —                                                     | 1.0E+05                                            | —                                              | 1.0E+05                                           |
| Nonylphenol, 4-n-                                                                | 104-40-5   | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Nonylphenol ethoxylate                                                           | 9016-45-9  | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Octamethylpyrophosphoramide                                                      | 152-16-9   | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Octanone                                                                         | 106-68-3   | —                                                     | 5.8E+04                                            | —                                              | 5.6E+04                                           |
| Oxamyl                                                                           | 23135-22-0 | —                                                     | 1.7E+04                                            | —                                              | 1.7E+04                                           |
| Oxychlorane                                                                      | 27304-13-8 | 5.3E+01                                               | 3.2E+02                                            | 5.2E+01                                        | 3.0E+02                                           |
| Paraquat                                                                         | 1910-42-5  | —                                                     | 3.1E+03                                            | —                                              | 3.1E+03                                           |
| Parathion (ethyl parathion)                                                      | 56-38-2    | —                                                     | 4.1E+03                                            | —                                              | 4.1E+03                                           |
| Pebulate                                                                         | 1114-71-2  | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Pendimethalin                                                                    | 40487-42-1 | —                                                     | 2.7E+04                                            | —                                              | 2.7E+04                                           |
| Pentachlorobenzene                                                               | 608-93-5   | —                                                     | 5.5E+02                                            | —                                              | 5.5E+02                                           |
| Pentachloroethane                                                                | 76-01-7    | 1.1E+02                                               | 3.1E+04                                            | 6.5E+01                                        | 3.1E+04                                           |
| Pentachloronitrobenzene                                                          | 82-68-8    | 7.3E+01                                               | 2.0E+03                                            | 7.3E+01                                        | 2.0E+03                                           |
| Pentachlorophenol                                                                | 87-86-5    | 3.2E+01                                               | 2.3E+03                                            | 3.2E+01                                        | 2.3E+03                                           |
| Pentadiene, 1,3-cis-                                                             | 1574-41-0  | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| Pentadiene, 1,3-trans-                                                           | 2004-70-8  | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| Pentaerythritol tetranitrate (PETN)                                              | 78-11-5    | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Pentane                                                                          | 109-66-0   | —                                                     | 5.5E+04                                            | —                                              | 5.0E+04                                           |
| Pentane, 2-methyl-                                                               | 107-83-5   | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| Pentane, 3-methyl-                                                               | 96-14-0    | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| Pentanediol, 1,5-                                                                | 111-29-5   | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Pentanol, 1-                                                                     | 71-41-0    | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Pentanol, 4-methyl-2-                                                            | 108-11-2   | —                                                     | 2.7E+04                                            | —                                              | 2.7E+04                                           |
| Pentanone, 2-                                                                    | 107-87-9   | —                                                     | 4.1E+04                                            | —                                              | 4.1E+04                                           |
| Pentene, 2-                                                                      | 109-68-2   | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| Pentyne, 1-                                                                      | 627-19-0   | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| Perchlorate                                                                      | 14797-73-0 | —                                                     | 5.7E+02                                            | —                                              | 5.7E+02                                           |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | —                                                     | 1.5E+01                                            | —                                              | 1.4E+01                                           |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDa]               | 2058-94-8  | —                                                     | 8.2E+00                                            | —                                              | 8.2E+00                                           |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                    | 2706-90-3  | —                                                     | 3.4E+02                                            | —                                              | 3.4E+02                                           |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                    | 307-24-4   | —                                                     | 3.4E+02                                            | —                                              | 3.4E+02                                           |
| Perfluorododecanoic acid (Dodecanoic acid, tricosfluoro-) [PFDoA]                | 307-55-1   | —                                                     | 7.5E+00                                            | —                                              | 7.0E+00                                           |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                  | 335-67-1   | —                                                     | 2.4E+00                                            | —                                              | 1.4E+00                                           |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                   | 335-76-2   | —                                                     | 9.4E+00                                            | —                                              | 8.8E+00                                           |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafluoro-) [PFDS]   | 335-77-3   | —                                                     | 8.2E+00                                            | —                                              | 8.2E+00                                           |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS]    | 355-46-4   | —                                                     | 2.2E+00                                            | —                                              | 2.0E+00                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                                         | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|-----------------------------------------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                                             |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                                             |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                  | 375-22-4   | —                                                     | 4.0E+02                                            | —                                              | 2.9E+02                                           |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]   | 375-73-5   | —                                                     | 6.0E+02                                            | —                                              | 4.4E+02                                           |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]            | 375-85-9   | —                                                     | 1.6E+01                                            | —                                              | 1.6E+01                                           |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]             | 375-95-1   | —                                                     | 6.1E+00                                            | —                                              | 4.9E+00                                           |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosafuoro-) [PFTeDA]  | 376-06-7   | —                                                     | 8.2E+00                                            | —                                              | 8.2E+00                                           |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosafuoro-) [PFTrDA]      | 72629-94-8 | —                                                     | 8.2E+00                                            | —                                              | 8.2E+00                                           |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA] | 754-91-6   | —                                                     | 8.7E-02                                            | —                                              | 4.5E-02                                           |
| Perylene                                                                    | 198-55-0   | —                                                     | 1.4E+04                                            | —                                              | 1.4E+04                                           |
| Phenacetin                                                                  | 62-44-2    | 5.9E+03                                               | —                                                  | 4.5E+03                                        | —                                                 |
| Phenanthrene                                                                | 85-01-8    | —                                                     | 1.9E+04                                            | —                                              | 1.9E+04                                           |
| Phenanthridine                                                              | 229-87-8   | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Phenol                                                                      | 108-95-2   | —                                                     | 2.7E+03                                            | —                                              | 1.4E+03                                           |
| Phenol, 4-tert-butyl-                                                       | 98-54-4    | —                                                     | 8.2E+04                                            | —                                              | 8.2E+04                                           |
| Phenothiazine                                                               | 92-84-2    | —                                                     | 7.5E+02                                            | —                                              | 7.5E+02                                           |
| Phenyl mercuric acetate                                                     | 62-38-4    | —                                                     | 5.5E+01                                            | —                                              | 5.5E+01                                           |
| Phenylene diamine, m-                                                       | 108-45-2   | —                                                     | 4.1E+03                                            | —                                              | 4.1E+03                                           |
| Phenylene diamine, p-                                                       | 106-50-3   | —                                                     | 1.3E+05                                            | —                                              | 1.3E+05                                           |
| Phorate                                                                     | 298-02-2   | —                                                     | 1.4E+02                                            | —                                              | 1.4E+02                                           |
| Phosalone                                                                   | 2310-17-0  | —                                                     | 1.4E+03                                            | —                                              | 1.4E+03                                           |
| Phosdrin (mevinphos)                                                        | 7786-34-7  | —                                                     | 1.7E+01                                            | —                                              | 1.7E+01                                           |
| Phosmet                                                                     | 732-11-6   | —                                                     | 1.4E+04                                            | —                                              | 1.4E+04                                           |
| Phosphine                                                                   | 7803-51-2  | —                                                     | 6.3E+00                                            | —                                              | 3.3E+00                                           |
| Phosphorotrithioic acid, S,S,S-tributyl ester                               | 78-48-8    | 2.3E+02                                               | 3.4E+02                                            | 2.3E+02                                        | 3.4E+02                                           |
| Phosphorus, total*                                                          | 7723-14-0  | —                                                     | —                                                  | —                                              | —                                                 |
| Phosphorus, white                                                           | 7723-14-0  | —                                                     | 1.6E+01                                            | —                                              | 1.6E+01                                           |
| Phthalic anhydride                                                          | 85-44-9    | —                                                     | 6.6E+04                                            | —                                              | 3.5E+04                                           |
| Picloram                                                                    | 1918-02-1  | —                                                     | 4.8E+04                                            | —                                              | 4.8E+04                                           |
| Picoline, 2- (2-methylpyridine)                                             | 109-06-8   | —                                                     | 9.2E+03                                            | —                                              | 9.2E+03                                           |
| Polybrominated biphenyls (PBBs)                                             | 67774-32-7 | 2.1E+00                                               | 4.8E+00                                            | 2.1E+00                                        | 4.8E+00                                           |
| Polychlorinated biphenyls (PCBs)                                            | 1336-36-3  | 7.7E+00                                               | 1.2E+01                                            | 7.1E+00                                        | 1.2E+01                                           |
| Potassium*                                                                  | 7440-09-7  | —                                                     | —                                                  | —                                              | —                                                 |
| Primene                                                                     | 68955-53-3 | —                                                     | 4.1E+03                                            | —                                              | 4.1E+03                                           |
| Prometon (pramitol)                                                         | 1610-18-0  | —                                                     | 1.0E+04                                            | —                                              | 1.0E+04                                           |
| Prometryn                                                                   | 7287-19-6  | —                                                     | 2.7E+04                                            | —                                              | 2.7E+04                                           |
| Pronamide                                                                   | 23950-58-5 | —                                                     | 5.1E+04                                            | —                                              | 5.1E+04                                           |
| Propanal (propionaldehyde)                                                  | 123-38-6   | —                                                     | 1.7E+02                                            | —                                              | 8.7E+01                                           |
| Propane, 1-bromo-                                                           | 106-94-5   | —                                                     | 3.7E+04                                            | —                                              | 3.7E+04                                           |
| Propanil                                                                    | 709-98-8   | —                                                     | 3.4E+03                                            | —                                              | 3.4E+03                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS         | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|------------------------------------------|-------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                          |             | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                          |             | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Propanoic acid (propionic acid)          | 79-09-4     | —                                                     | 5.1E+05                                            | —                                              | 5.1E+05                                           |
| Propanol, 1-                             | 71-23-8     | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Propargite                               | 2312-35-8   | —                                                     | 1.4E+04                                            | —                                              | 1.4E+04                                           |
| Propargyl alcohol                        | 107-19-7    | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Propazine                                | 139-40-2    | 4.3E+02                                               | 1.4E+04                                            | 4.3E+02                                        | 1.4E+04                                           |
| Propham                                  | 122-42-9    | —                                                     | 1.4E+04                                            | —                                              | 1.4E+04                                           |
| Propionitrile (propane nitrile)          | 107-12-0    | —                                                     | 4.1E+02                                            | —                                              | 4.1E+02                                           |
| Propyl acetate, n-                       | 109-60-4    | —                                                     | 9.2E+04                                            | —                                              | 9.2E+04                                           |
| Propylbenzene, n-                        | 103-65-1    | —                                                     | 7.3E+03                                            | —                                              | 4.1E+03                                           |
| Propylene glycol                         | 57-55-6     | —                                                     | 5.1E+02                                            | —                                              | 2.6E+02                                           |
| Propylene glycol monomethyl ether        | 107-98-2    | —                                                     | 2.2E+05                                            | —                                              | 1.3E+05                                           |
| Propylene oxide                          | 75-56-9     | 6.9E+01                                               | 6.4E+02                                            | 4.9E+01                                        | 3.3E+02                                           |
| Propylene tetramer                       | 6842-15-5   | —                                                     | 1.6E+04                                            | —                                              | 9.5E+03                                           |
| Prothiofos (Tokuthion)                   | 34643-46-4  | —                                                     | 6.8E+01                                            | —                                              | 6.8E+01                                           |
| Pyrene                                   | 129-00-0    | —                                                     | 1.9E+04                                            | —                                              | 1.9E+04                                           |
| Pyridine                                 | 110-86-1    | —                                                     | 1.0E+03                                            | —                                              | 1.0E+03                                           |
| Quinoline                                | 91-22-5     | 6.4E+00                                               | —                                                  | 6.4E+00                                        | —                                                 |
| Ronnel                                   | 299-84-3    | —                                                     | 3.4E+04                                            | —                                              | 3.4E+04                                           |
| Safrole                                  | 94-59-7     | 4.9E+01                                               | —                                                  | 3.5E+01                                        | —                                                 |
| Selenium                                 | 7782-49-2   | —                                                     | 4.9E+03                                            | —                                              | 4.9E+03                                           |
| Selenourea                               | 630-10-4    | —                                                     | 5.1E+03                                            | —                                              | 5.1E+03                                           |
| Silver                                   | 7440-22-4   | —                                                     | 2.3E+03                                            | —                                              | 2.3E+03                                           |
| Simazine                                 | 122-34-9    | 1.6E+02                                               | 3.4E+03                                            | 1.6E+02                                        | 3.4E+03                                           |
| Sodium*                                  | 7440-23-5   | —                                                     | —                                                  | —                                              | —                                                 |
| Sodium hypochlorite                      | 7681-52-9   | —                                                     | 1.2E+05                                            | —                                              | 9.6E+04                                           |
| Sodium polyacrylate                      | 9003-04-7   | —                                                     | 1.7E+02                                            | —                                              | 8.7E+01                                           |
| Strontium                                | 7440-24-6   | —                                                     | 4.9E+05                                            | —                                              | 4.9E+05                                           |
| Strychnine                               | 57-24-9     | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Styrene                                  | 100-42-5    | —                                                     | 1.5E+04                                            | —                                              | 7.8E+03                                           |
| Sulfate*                                 | 14808-79-8  | —                                                     | —                                                  | —                                              | —                                                 |
| Sulfide*                                 | 18496-25-8  | —                                                     | —                                                  | —                                              | —                                                 |
| Sulfolane                                | 126-33-0    | —                                                     | 1.1E+03                                            | —                                              | 5.8E+02                                           |
| Sulfur*                                  | 7704-34-9   | —                                                     | —                                                  | —                                              | —                                                 |
| Sulprofos (Bolstar)                      | 35400-43-2  | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Tebuconazole                             | 107534-96-3 | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Tebuthiuron                              | 34014-18-1  | —                                                     | 4.8E+04                                            | —                                              | 4.8E+04                                           |
| Terbufos                                 | 13071-79-9  | —                                                     | 1.7E+01                                            | —                                              | 1.7E+01                                           |
| Tert-amyl ethyl ether (TAEE)             | 919-94-8    | —                                                     | 4.1E+04                                            | —                                              | 4.1E+04                                           |
| Tert-amyl-methyl ether (TAME)            | 994-05-8    | —                                                     | 4.1E+04                                            | —                                              | 4.1E+04                                           |
| Tert-butyl alcohol (2-methyl-2-propanol) | 75-65-0     | —                                                     | 3.0E+05                                            | —                                              | 1.9E+05                                           |
| Tetrachlorobenzene, 1,2,3,4-             | 634-66-2    | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                       | CAS        | TotSoilComb                                           |                                                    |                                                |                                                   |
|-------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                           |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                           |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2   | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3    | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6   | 1.3E+02                                               | 3.1E+04                                            | 7.3E+01                                        | 3.1E+04                                           |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5    | 1.4E+02                                               | 2.0E+04                                            | 1.4E+02                                        | 2.0E+04                                           |
| Tetrachloroethylene [PCE]                 | 127-18-4   | 1.4E+03                                               | 5.8E+03                                            | 7.7E+02                                        | 3.4E+03                                           |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3  | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2    | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5   | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Tetrachlorvinphos (Stirophos)             | 22248-79-9 | —                                                     | 2.9E+04                                            | —                                              | 2.9E+04                                           |
| Tetradifon                                | 116-29-0   | —                                                     | 1.4E+04                                            | —                                              | 1.4E+04                                           |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5  | —                                                     | 3.4E+02                                            | —                                              | 3.4E+02                                           |
| Tetraethyl lead                           | 78-00-2    | —                                                     | 6.8E-02                                            | —                                              | 6.8E-02                                           |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3   | —                                                     | 7.5E+00                                            | —                                              | 7.5E+00                                           |
| Tetraethylene glycol                      | 112-60-7   | —                                                     | 2.2E+05                                            | —                                              | 2.2E+05                                           |
| Tetrahydrofuran                           | 109-99-9   | 2.9E+02                                               | 4.1E+04                                            | 1.6E+02                                        | 2.2E+04                                           |
| Tetrahydropyran                           | 142-68-7   | 3.1E+02                                               | 2.0E+05                                            | 1.7E+02                                        | 2.0E+05                                           |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2   | —                                                     | 1.7E+04                                            | —                                              | 1.7E+04                                           |
| Thallium                                  | 7440-28-0  | —                                                     | 6.5E+01                                            | —                                              | 6.5E+01                                           |
| Thiofanox                                 | 39196-18-4 | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Thionazin                                 | 297-97-2   | —                                                     | 4.8E+01                                            | —                                              | 4.8E+01                                           |
| Thiophanate-methyl                        | 23564-05-8 | —                                                     | 5.5E+04                                            | —                                              | 5.5E+04                                           |
| Thiram                                    | 137-26-8   | —                                                     | 3.4E+03                                            | —                                              | 3.4E+03                                           |
| Tin                                       | 7440-31-5  | —                                                     | 4.1E+05                                            | —                                              | 4.1E+05                                           |
| Titanium                                  | 7440-32-6  | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Toluene                                   | 108-88-3   | —                                                     | 4.2E+04                                            | —                                              | 2.9E+04                                           |
| Toluene diisocyanate, 2,4/2,6-            | 26471-62-5 | —                                                     | 2.0E+02                                            | —                                              | 1.0E+02                                           |
| Toluenediamine, 2,4-                      | 95-80-7    | 6.0E+00                                               | —                                                  | 6.0E+00                                        | —                                                 |
| Toluenediamine, 2,6-                      | 823-40-5   | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Toluidine, o-                             | 95-53-4    | 1.1E+02                                               | —                                                  | 7.6E+01                                        | —                                                 |
| Toluidine, p-                             | 106-49-0   | 2.3E+02                                               | —                                                  | 2.3E+02                                        | —                                                 |
| Toxaphene                                 | 8001-35-2  | 1.7E+01                                               | 2.1E+02                                            | 1.7E+01                                        | 2.1E+02                                           |
| TPH, TX1005, C6-C12                       | TPH-1005-1 | —                                                     | 3.9E+03                                            | —                                              | 2.1E+03                                           |
| TPH, TX1005, >C12-C28                     | TPH-1005-2 | —                                                     | 1.2E+04                                            | —                                              | 7.8E+03                                           |
| TPH, TX1005, >C12-C35                     | TPH-1005-3 | —                                                     | 1.2E+04                                            | —                                              | 7.8E+03                                           |
| TPH, TX1005, >C28-C35                     | TPH-1005-4 | —                                                     | 1.2E+04                                            | —                                              | 7.8E+03                                           |
| TP Silvex, 2,4,5-                         | 93-72-1    | —                                                     | 5.5E+03                                            | —                                              | 5.5E+03                                           |
| Triademenol                               | 55219-65-3 | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Triallate                                 | 2303-17-5  | —                                                     | 8.9E+03                                            | —                                              | 8.9E+03                                           |
| Triaminotrinrobenzene (TATB)              | 3058-38-6  | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Tributyltin oxide                         | 56-35-9    | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Trichloro-1,2,2-trifluoroethane, 1,1,2-   | 76-13-1    | —                                                     | 1.1E+05                                            | —                                              | 5.5E+04                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|---------------------------------------------------|------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                   |            | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                   |            | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Trichlorobenzene, 1,2,3-                          | 87-61-6    | —                                                     | 3.5E+02                                            | —                                              | 2.0E+02                                           |
| Trichlorobenzene, 1,2,4-                          | 120-82-1   | 6.6E+02                                               | 2.0E+02                                            | 6.6E+02                                        | 1.1E+02                                           |
| Trichlorobenzene, 1,3,5-                          | 108-70-3   | —                                                     | 1.6E+02                                            | —                                              | 8.7E+01                                           |
| Trichloroethane, 1,1,1-                           | 71-55-6    | —                                                     | 1.0E+05                                            | —                                              | 5.5E+04                                           |
| Trichloroethane, 1,1,2-                           | 79-00-5    | 3.5E+01                                               | 4.1E+03                                            | 1.9E+01                                        | 4.1E+03                                           |
| Trichloroethylene [TCE]                           | 79-01-6    | 1.2E+02                                               | 4.0E+01                                            | 6.7E+01                                        | 2.1E+01                                           |
| Trichlorofluoromethane                            | 75-69-4    | —                                                     | 3.1E+05                                            | —                                              | 3.1E+05                                           |
| Trichloronate                                     | 327-98-0   | —                                                     | 2.0E+03                                            | —                                              | 2.0E+03                                           |
| Trichlorophenol, 2,3,4-                           | 15950-66-0 | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Trichlorophenol, 2,3,5-                           | 933-78-8   | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Trichlorophenol, 2,3,6-                           | 933-75-5   | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Trichlorophenol, 2,4,5-                           | 95-95-4    | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Trichlorophenol, 2,4,6-                           | 88-06-2    | 1.1E+03                                               | 6.8E+02                                            | 8.6E+02                                        | 6.8E+02                                           |
| Trichlorophenol, 3,4,5-                           | 609-19-8   | —                                                     | 6.8E+04                                            | —                                              | 6.8E+04                                           |
| Trichlorophenoxyacetic acid, 2,4,5-               | 93-76-5    | —                                                     | 6.8E+03                                            | —                                              | 6.8E+03                                           |
| Trichloropropane, 1,1,2-                          | 598-77-6   | —                                                     | 6.4E+00                                            | —                                              | 3.3E+00                                           |
| Trichloropropane, 1,2,3-                          | 96-18-4    | 9.5E-01                                               | 1.9E+01                                            | 9.5E-01                                        | 1.0E+01                                           |
| Triethanolamine                                   | 102-71-6   | —                                                     | 5.2E+03                                            | —                                              | 2.7E+03                                           |
| Triethylamine                                     | 121-44-8   | —                                                     | 1.5E+02                                            | —                                              | 7.7E+01                                           |
| Triethylene glycol                                | 112-27-6   | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| Triethylphosphorothioate, O, O, O-                | 126-68-1   | —                                                     | 5.7E+00                                            | —                                              | 5.7E+00                                           |
| Trifluralin                                       | 1582-09-8  | 2.5E+03                                               | 5.1E+03                                            | 2.5E+03                                        | 5.1E+03                                           |
| Trimethylamine                                    | 75-50-3    | —                                                     | 2.1E+02                                            | —                                              | 1.1E+02                                           |
| Trimethylbenzene, 1,2,3-                          | 526-73-8   | —                                                     | 4.4E+03                                            | —                                              | 2.4E+03                                           |
| Trimethylbenzene, 1,2,4-                          | 95-63-6    | —                                                     | 4.9E+03                                            | —                                              | 2.7E+03                                           |
| Trimethylbenzene, 1,3,5-                          | 108-67-8   | —                                                     | 4.3E+03                                            | —                                              | 2.3E+03                                           |
| Trinitrobenzene, 1,3,5-                           | 99-35-4    | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| Trinitrophenylmethylnitramine (tetryl; nitramine) | 479-45-8   | —                                                     | 1.6E+03                                            | —                                              | 1.6E+03                                           |
| Trinitrotoluene, 2,4,6-                           | 118-96-7   | 6.4E+02                                               | 3.4E+02                                            | 6.4E+02                                        | 3.4E+02                                           |
| Tungsten (as sodium tungstate dihydride)          | 7440-33-7  | —                                                     | 8.2E+02                                            | —                                              | 8.2E+02                                           |
| Uranium (soluble salts)                           | 7440-61-1  | —                                                     | 2.8E+03                                            | —                                              | 2.6E+03                                           |
| Valeric acid (pentanoic acid)                     | 109-52-4   | —                                                     | 1.8E+02                                            | —                                              | 9.5E+01                                           |
| Vanadium                                          | 7440-62-2  | —                                                     | 6.2E+02                                            | —                                              | 6.1E+02                                           |
| Vernam                                            | 1929-77-7  | —                                                     | 6.8E+02                                            | —                                              | 6.8E+02                                           |
| Vinyl acetate                                     | 108-05-4   | —                                                     | 4.3E+03                                            | —                                              | 2.2E+03                                           |
| Vinyl chloride                                    | 75-01-4    | 1.5E+01                                               | 9.1E+02                                            | 1.3E+01                                        | 5.5E+02                                           |
| Vinylcyclohexane                                  | 695-12-5   | —                                                     | 5.1E+05                                            | —                                              | 5.1E+05                                           |
| Warfarin                                          | 81-81-2    | —                                                     | 2.0E+02                                            | —                                              | 2.0E+02                                           |
| Xylene, m-                                        | 108-38-3   | —                                                     | 1.3E+04                                            | —                                              | 6.7E+03                                           |
| Xylene, o-                                        | 95-47-6    | —                                                     | 9.1E+04                                            | —                                              | 4.8E+04                                           |
| Xylene, p-                                        | 106-42-3   | —                                                     | 1.3E+04                                            | —                                              | 6.7E+03                                           |

**Table 5**  
**Tier 1 Commercial/Industrial Total Soil Combined PCLs**  
**Last Revised: February 6, 2025**

| Chemical of Concern                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CAS       | TotSoil <sub>Comb</sub>                               |                                                    |                                                |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | (includes inhalation, ingestion, and dermal pathways) |                                                    |                                                |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | 0.5 acre source area<br>Carcinogenic<br>(mg/kg)       | 0.5 acre source area<br>Noncarcinogenic<br>(mg/kg) | 30 acre source area<br>Carcinogenic<br>(mg/kg) | 30 acre source area<br>Noncarcinogenic<br>(mg/kg) |
| Xylenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1330-20-7 | —                                                     | 1.2E+04                                            | —                                              | 6.5E+03                                           |
| Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7440-66-6 | —                                                     | 2.5E+05                                            | —                                              | 2.5E+05                                           |
| 6 C aliphatics (TPH) (>53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA        | —                                                     | 1.2E+04                                            | —                                              | 6.6E+03                                           |
| 6 C aliphatics (TPH) (<53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA        | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA        | —                                                     | 1.2E+04                                            | —                                              | 6.6E+03                                           |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA        | —                                                     | 5.3E+04                                            | —                                              | 4.7E+04                                           |
| >8-10 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA        | —                                                     | 9.7E+03                                            | —                                              | 5.2E+03                                           |
| >10-12 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA        | —                                                     | 9.3E+03                                            | —                                              | 5.1E+03                                           |
| >12-16 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA        | —                                                     | 1.4E+04                                            | —                                              | 7.7E+03                                           |
| >16-21 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA        | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                                                                                                                                                                                                                | NA        | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| >21-35 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA        | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                                                                                                                                                                                                                | NA        | —                                                     | 1.0E+06                                            | —                                              | 1.0E+06                                           |
| >7-8 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA        | —                                                     | 2.9E+04                                            | —                                              | 1.7E+04                                           |
| >8-10 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NA        | —                                                     | 3.9E+03                                            | —                                              | 2.1E+03                                           |
| >10-12 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA        | —                                                     | 6.9E+03                                            | —                                              | 4.0E+03                                           |
| >12-16 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA        | —                                                     | 1.2E+04                                            | —                                              | 7.8E+03                                           |
| >16-21 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA        | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| >21-35 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA        | —                                                     | 2.0E+04                                            | —                                              | 2.0E+04                                           |
| <b>Footnotes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                       |                                                    |                                                |                                                   |
| <b>1</b> Site-specific PCLs for mercury may vary based on the pH-dependent K <sub>d</sub> value (see Figure:30 TAC §350.73(f)(1)(C)). Persons should use the Tier 1 pH 4.9-based PCLs unless a site-specific soil pH > 6.8 is demonstrated with site-specific soil samples.                                                                                                                                                                                                          |           |                                                       |                                                    |                                                |                                                   |
| <b>*</b> These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <a href="http://www.tceq.state.tx.us/remediation/trrp/trrp.html">http://www.tceq.state.tx.us/remediation/trrp/trrp.html</a> . |           |                                                       |                                                    |                                                |                                                   |
| NA = not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                       |                                                    |                                                |                                                   |
| All values capped at 1E+06                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                       |                                                    |                                                |                                                   |

This table shows the total soil combined protective concentration levels for commercial/industrial land with both carcinogenic and non-carcinogenic values depicted.

end of worksheet

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS        | Carcinogenic                                                                   |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           | Noncarcinogenic                                                                |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           |
|------------------------------------------|------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                          |            | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5<br>acre source<br>area (mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Acenaphthene                             | 83-32-9    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.9E+03                        | 1.6E+04                         | 1.4E+04                       | —                                                                                          | —                                                                                         |
| Acenaphthylene                           | 208-96-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.9E+03                        | 1.6E+04                         | —                             | —                                                                                          | —                                                                                         |
| Acetaldehyde                             | 75-07-0    | 1.7E+02                                                                        | 8.7E+01                                                                       | —                              | —                               | —                             | 1.7E+02                                                                                    | 8.7E+01                                                                                   | 1.4E+02                                                                        | 7.4E+01                                                                       | 8.2E+03                        | —                               | —                             | 1.4E+02                                                                                    | 7.4E+01                                                                                   |
| Acetate, 2-ethoxyethanol                 | 111-15-9   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 6.0E+03                                                                        | 3.1E+03                                                                       | 8.2E+03                        | —                               | —                             | 6.0E+03                                                                                    | 3.1E+03                                                                                   |
| Acetate, isoamyl                         | 123-92-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 5.9E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Acetate, isobutyl                        | 110-19-0   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.9E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Acetate, sec-butyl                       | 105-46-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.9E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Acetic acid*                             | 64-19-7    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Acetone (2-propanone)                    | 67-64-1    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 6.0E+05                                                                        | 3.1E+05                                                                       | 7.4E+04                        | —                               | —                             | 6.0E+05                                                                                    | 3.1E+05                                                                                   |
| Acetone cyanohydrin                      | 75-86-5    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 4.3E+03                                                                        | 2.2E+03                                                                       | 2.5E+02                        | 1.1E+03                         | —                             | 4.3E+03                                                                                    | 2.2E+03                                                                                   |
| Acetonitrile                             | 75-05-8    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.3E+03                                                                        | 6.7E+02                                                                       | 2.6E+03                        | —                               | —                             | 1.3E+03                                                                                    | 6.7E+02                                                                                   |
| Acetophenone                             | 98-86-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | —                             | —                                                                                          | —                                                                                         |
| Acetylaminofluorene, 2-                  | 53-96-3    | 1.9E+01                                                                        | 9.5E+00                                                                       | 1.6E+00                        | 5.5E+00                         | —                             | 1.9E+01                                                                                    | 9.5E+00                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Acifluorfen, sodium                      | 62476-59-9 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.1E+03                        | 4.6E+03                         | —                             | —                                                                                          | —                                                                                         |
| Acridine                                 | 260-94-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Acrolein                                 | 107-02-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.5E+02                                                                        | 7.8E+01                                                                       | 4.1E+01                        | —                               | —                             | 1.5E+02                                                                                    | 7.8E+01                                                                                   |
| Acrylamide                               | 79-06-1    | 2.8E+01                                                                        | 1.4E+01                                                                       | 1.2E+01                        | 4.2E+01                         | —                             | 2.8E+01                                                                                    | 1.4E+01                                                                                   | 7.2E+02                                                                        | 3.7E+02                                                                       | 1.6E+02                        | 7.1E+02                         | —                             | 7.2E+02                                                                                    | 3.7E+02                                                                                   |
| Acrylic acid                             | 79-10-7    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.2E+02                                                                        | 6.2E+01                                                                       | 4.1E+04                        | —                               | —                             | 1.2E+02                                                                                    | 6.2E+01                                                                                   |
| Acrylonitrile                            | 107-13-1   | 5.3E+00                                                                        | 2.7E+00                                                                       | 1.1E+01                        | —                               | —                             | 5.3E+00                                                                                    | 2.7E+00                                                                                   | 3.1E+01                                                                        | 1.6E+01                                                                       | 8.2E+01                        | —                               | —                             | 3.1E+01                                                                                    | 1.6E+01                                                                                   |
| Adipic acid (hexanedioic acid)           | 124-04-9   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+05                        | 7.1E+05                         | —                             | —                                                                                          | —                                                                                         |
| Alachlor                                 | 15972-60-8 | —                                                                              | —                                                                             | 7.6E+01                        | 2.6E+02                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+02                        | 3.6E+03                         | —                             | —                                                                                          | —                                                                                         |
| Aldicarb                                 | 116-06-3   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+01                        | 3.6E+02                         | —                             | —                                                                                          | —                                                                                         |
| Aldicarb sulfone                         | 1646-88-4  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+01                        | 3.6E+02                         | —                             | —                                                                                          | —                                                                                         |
| Aldrin                                   | 309-00-2   | 8.3E+00                                                                        | 4.3E+00                                                                       | 3.6E-01                        | 1.2E+00                         | 6.2E-02                       | 8.3E+00                                                                                    | 4.3E+00                                                                                   | —                                                                              | —                                                                             | 2.5E+00                        | 1.1E+01                         | 8.4E-01                       | —                                                                                          | —                                                                                         |
| Allyl alcohol                            | 107-18-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 5.7E+00                                                                        | 2.9E+00                                                                       | 4.1E+02                        | —                               | —                             | 5.7E+00                                                                                    | 2.9E+00                                                                                   |
| Allyl chloride                           | 107-05-1   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.5E+01                                                                        | 7.9E+00                                                                       | 8.2E+02                        | —                               | —                             | 1.5E+01                                                                                    | 7.9E+00                                                                                   |
| Aluminum                                 | 7429-90-5  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.0E+06                                                                        | 1.0E+06                                                                       | 8.2E+04                        | 3.6E+05                         | 1.0E+06                       | —                                                                                          | —                                                                                         |
| Ametryn                                  | 834-12-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 7.4E+02                        | 3.2E+03                         | —                             | —                                                                                          | —                                                                                         |
| Amino-2,6-dinitrotoluene, 4-             | 19406-51-0 | —                                                                              | —                                                                             | 2.0E+02                        | 6.9E+02                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+01                        | 1.8E+02                         | —                             | —                                                                                          | —                                                                                         |
| Amino-4,6-dinitrotoluene, 2-             | 35572-78-2 | —                                                                              | —                                                                             | 2.0E+02                        | 6.9E+02                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+01                        | 1.8E+02                         | —                             | —                                                                                          | —                                                                                         |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine) | 92-67-1    | —                                                                              | —                                                                             | 1.0E+00                        | 3.4E+00                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Aminopyridine, 4-                        | 504-24-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+00                        | 7.1E+00                         | —                             | —                                                                                          | —                                                                                         |
| Ammonia                                  | 7664-41-7  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 4.9E+03                                                                        | 2.5E+03                                                                       | —                              | —                               | —                             | 4.9E+03                                                                                    | 2.5E+03                                                                                   |
| Ammonium polyphosphate*                  | 6833-79-9  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Ammonium salts*                          | AMMONIUM   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Aniline                                  | 62-53-3    | —                                                                              | —                                                                             | 1.1E+03                        | 3.6E+03                         | —                             | —                                                                                          | —                                                                                         | 1.3E+02                                                                        | 6.7E+01                                                                       | 5.7E+02                        | 2.5E+03                         | —                             | 1.3E+02                                                                                    | 6.7E+01                                                                                   |
| Anthracene                               | 120-12-7   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+04                        | 8.2E+04                         | 2.9E+05                       | —                                                                                          | —                                                                                         |
| Anthraquinone, 9,10-                     | 84-65-1    | —                                                                              | —                                                                             | 1.6E+02                        | 5.3E+02                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+03                        | 7.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Antimony                                 | 7440-36-0  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+01                        | 2.1E+02                         | 3.2E+01                       | —                                                                                          | —                                                                                         |
| Aramite                                  | 140-57-8   | 1.0E+06                                                                        | 1.0E+06                                                                       | 2.4E+02                        | 8.3E+02                         | 2.7E+02                       | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+03                        | 1.8E+04                         | 8.9E+03                       | —                                                                                          | —                                                                                         |
| Arsenic                                  | 7440-38-2  | 1.5E+05                                                                        | 7.7E+04                                                                       | 5.2E+01                        | 4.6E+02                         | 1.3E+02                       | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.1E+01                        | 3.6E+02                         | 1.5E+02                       | —                                                                                          | —                                                                                         |
| Arsine                                   | 7784-42-1  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 7.7E-01                                                                        | 3.9E-01                                                                       | —                              | —                               | —                             | 7.7E-01                                                                                    | 3.9E-01                                                                                   |
| Atrazine                                 | 1912-24-9  | —                                                                              | —                                                                             | 2.7E+01                        | 9.4E+01                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.9E+03                        | 1.2E+04                         | —                             | —                                                                                          | —                                                                                         |
| Azinphos-methyl (guthion)                | 86-50-0    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.2E+02                        | 5.3E+02                         | —                             | —                                                                                          | —                                                                                         |
| Azobenzene                               | 103-33-3   | 1.4E+03                                                                        | 7.1E+02                                                                       | 5.5E+01                        | 1.9E+02                         | 3.5E+02                       | 1.4E+03                                                                                    | 7.1E+02                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | Carcinogenic                                                         |                                                                     |                                             |                                              |                                            |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                                             |                                              |                                            |                                                                     |                                                                    |
|-----------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                               |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub> (mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub> (mg/kg) | Veg <sub>Soil</sub> <sub>Ing</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub> (mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub> (mg/kg) | Veg <sub>Soil</sub> <sub>Ing</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) |
| Barium                                        | 7440-39-3  | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.6E+04                                     | 5.0E+04                                      | 2.4E+04                                    | —                                                                   | —                                                                  |
| Bayleton                                      | 43121-43-3 | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.5E+03                                     | 1.1E+04                                      | —                                          | —                                                                   | —                                                                  |
| Benefin (benfluralin)                         | 1861-40-1  | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.5E+04                                     | 1.1E+05                                      | 4.2E+05                                    | —                                                                   | —                                                                  |
| Benomyl                                       | 17804-35-2 | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+03                                     | 1.8E+04                                      | —                                          | —                                                                   | —                                                                  |
| Benz-a-anthracene                             | 56-55-3    | 5.4E+03                                                              | 2.8E+03                                                             | 6.1E+01                                     | 1.6E+02                                      | 6.8E+02                                    | 5.5E+03                                                             | 2.8E+03                                                            | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  |
| Benzaldehyde                                  | 100-52-7   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+03                                     | —                                            | —                                          | —                                                                   | —                                                                  |
| Benzene                                       | 71-43-2    | 1.6E+02                                                              | 8.4E+01                                                             | 4.0E+02                                     | —                                            | —                                          | 1.6E+02                                                             | 8.4E+01                                                            | 4.3E+03                                                              | 2.2E+03                                                             | 3.3E+02                                     | —                                            | —                                          | 4.3E+03                                                             | 2.2E+03                                                            |
| Benzenediacarbonitrile, 1,3-                  | 626-17-5   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.9E+02                                     | 2.1E+03                                      | —                                          | —                                                                   | —                                                                  |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | 1.0E+06                                                              | 1.0E+06                                                             | 3.3E+03                                     | 1.4E+04                                      | 6.6E+05                                    | 1.0E+06                                                             | 1.0E+06                                                            |
| Benzenethiol                                  | 108-98-5   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+01                                     | —                                            | —                                          | —                                                                   | —                                                                  |
| Benzydine                                     | 92-87-5    | 6.3E-02                                                              | 3.2E-02                                                             | 2.6E-02                                     | 9.0E-02                                      | —                                          | 6.3E-02                                                             | 3.2E-02                                                            | —                                                                    | —                                                                   | 2.5E+02                                     | 1.1E+03                                      | —                                          | —                                                                   | —                                                                  |
| Benzo-a-pyrene                                | 50-32-8    | 1.2E+03                                                              | 6.2E+02                                                             | 6.1E+00                                     | 1.6E+01                                      | 6.5E+01                                    | 1.2E+03                                                             | 6.4E+02                                                            | 6.2E+01                                                              | 3.2E+01                                                             | 2.5E+01                                     | 8.2E+01                                      | 5.2E+02                                    | 6.4E+01                                                             | 3.3E+01                                                            |
| Benzo-b-fluoranthene                          | 205-99-2   | 8.8E+03                                                              | 4.5E+03                                                             | 6.1E+01                                     | 1.6E+02                                      | 8.2E+02                                    | 9.0E+03                                                             | 4.6E+03                                                            | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  |
| Benzo-e-pyrene                                | 192-97-2   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.5E+03                                     | 8.2E+03                                      | 7.4E+04                                    | —                                                                   | —                                                                  |
| Benzo-g,h,i-perylene                          | 191-24-2   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.5E+03                                     | 8.2E+03                                      | 3.0E+04                                    | —                                                                   | —                                                                  |
| Benzoic acid                                  | 65-85-0    | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.3E+05                                     | 1.0E+06                                      | —                                          | —                                                                   | —                                                                  |
| Benzo-j-fluoranthene                          | 205-82-3   | 4.7E+03                                                              | 2.4E+03                                                             | 6.1E+01                                     | 1.6E+02                                      | 3.6E+02                                    | 4.7E+03                                                             | 2.4E+03                                                            | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  |
| Benzo-k-fluoranthene                          | 207-08-9   | 2.1E+05                                                              | 1.1E+05                                                             | 6.1E+02                                     | 1.6E+03                                      | 8.4E+03                                    | 2.2E+05                                                             | 1.1E+05                                                            | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  |
| Benzophenone                                  | 119-61-9   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.5E+02                                     | 2.4E+03                                      | —                                          | —                                                                   | —                                                                  |
| Benzotrichloride                              | 98-07-7    | —                                                                    | —                                                                   | 4.7E-01                                     | 1.6E+00                                      | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  |
| Benzoyl peroxide                              | 94-36-0    | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+03                                     | 1.8E+04                                      | —                                          | —                                                                   | —                                                                  |
| Benzyl alcohol                                | 100-51-6   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+03                                     | 3.6E+04                                      | —                                          | —                                                                   | —                                                                  |
| Benzyl chloride                               | 100-44-7   | —                                                                    | —                                                                   | 3.6E+01                                     | —                                            | —                                          | —                                                                   | —                                                                  | 3.1E+01                                                              | 1.6E+01                                                             | 1.6E+02                                     | —                                            | —                                          | 3.1E+01                                                             | 1.6E+01                                                            |
| Benzyl dichloride                             | 98-87-3    | —                                                                    | —                                                                   | 3.6E+01                                     | 1.2E+02                                      | —                                          | —                                                                   | —                                                                  | 5.5E+01                                                              | 2.8E+01                                                             | 1.6E+02                                     | 7.1E+02                                      | —                                          | 5.5E+01                                                             | 2.8E+01                                                            |
| Beryllium                                     | 7440-41-7  | 9.4E+03                                                              | 4.8E+03                                                             | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | 9.7E+02                                                              | 5.0E+02                                                             | 1.6E+02                                     | 5.0E+01                                      | 3.1E+03                                    | —                                                                   | —                                                                  |
| Biphenyl, 1,1'-                               | 92-52-4    | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                                     | 1.8E+04                                      | —                                          | —                                                                   | —                                                                  |
| Biphenyl, 1,1'-, 2-phenoxy-                   | 6738-04-1  | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+03                                     | 1.8E+04                                      | 1.0E+05                                    | —                                                                   | —                                                                  |
| Biquinoline, 2,2'-                            | 119-91-5   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.5E+02                                     | 1.1E+03                                      | 1.9E+03                                    | —                                                                   | —                                                                  |
| Bis (2-chloroethoxy) methane                  | 111-91-1   | 1.1E+01                                                              | 5.8E+00                                                             | 5.5E+00                                     | 1.9E+01                                      | —                                          | 1.1E+01                                                             | 5.8E+00                                                            | —                                                                    | —                                                                   | 2.5E+02                                     | 1.1E+03                                      | —                                          | —                                                                   | —                                                                  |
| Bis (2-chloroethyl) ether                     | 111-44-4   | 3.6E+00                                                              | 1.8E+00                                                             | 5.5E+00                                     | —                                            | —                                          | 3.6E+00                                                             | 1.8E+00                                                            | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  |
| Bis (2-chloro-1-methylethyl) ether            | 108-60-1   | 2.1E+02                                                              | 1.1E+02                                                             | 8.7E+01                                     | 3.0E+02                                      | —                                          | 2.1E+02                                                             | 1.1E+02                                                            | —                                                                    | —                                                                   | 3.3E+03                                     | 1.4E+04                                      | —                                          | —                                                                   | —                                                                  |
| Bis (2-chloromethyl) ether                    | 542-88-1   | 5.8E-03                                                              | 3.0E-03                                                             | 2.8E-02                                     | —                                            | —                                          | 5.8E-03                                                             | 3.0E-03                                                            | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  |
| Bis (2-ethyl-hexyl) phthalate                 | 117-81-7   | —                                                                    | —                                                                   | 4.3E+02                                     | 2.8E+02                                      | 5.8E+01                                    | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.6E+03                                     | 1.4E+03                                      | 4.3E+02                                    | —                                                                   | —                                                                  |
| Bismuth                                       | 7440-69-9  | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                                     | 3.6E+05                                      | —                                          | —                                                                   | —                                                                  |
| Bisphenol A                                   | 80-05-7    | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+03                                     | 1.8E+04                                      | —                                          | —                                                                   | —                                                                  |
| Boron                                         | 7440-42-8  | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | 1.0E+06                                                              | 1.0E+06                                                             | 1.6E+04                                     | 7.1E+05                                      | —                                          | —                                                                   | —                                                                  |
| Bromacil                                      | 314-40-9   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+03                                     | 3.6E+04                                      | —                                          | —                                                                   | —                                                                  |
| Bromo-2-chloroethane, 1-                      | 107-04-0   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.3E+03                                     | —                                            | —                                          | —                                                                   | —                                                                  |
| Bromobenzene                                  | 108-86-1   | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | 9.7E+02                                                              | 5.0E+02                                                             | 6.6E+02                                     | —                                            | —                                          | 9.7E+02                                                             | 5.0E+02                                                            |
| Bromodichloromethane                          | 75-27-4    | —                                                                    | —                                                                   | 9.8E+01                                     | —                                            | —                                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 6.6E+02                                     | —                                            | —                                          | —                                                                   | —                                                                  |
| Bromoform                                     | 75-25-2    | 8.4E+02                                                              | 4.3E+02                                                             | 7.7E+02                                     | —                                            | —                                          | 8.4E+02                                                             | 4.3E+02                                                            | —                                                                    | —                                                                   | 1.6E+03                                     | —                                            | —                                          | —                                                                   | —                                                                  |
| Bromomethane                                  | 74-83-9    | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | 6.0E+01                                                              | 3.1E+01                                                             | 1.1E+02                                     | —                                            | —                                          | 6.0E+01                                                             | 3.1E+01                                                            |
| Bromophenyl phenylether, 4-                   | 101-55-3   | 9.7E+00                                                              | 5.0E+00                                                             | 4.0E-01                                     | 1.4E+00                                      | 3.0E+00                                    | 9.8E+00                                                             | 5.0E+00                                                            | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  |
| Butadiene, 1,3-                               | 106-99-0   | 7.2E+02                                                              | 3.7E+02                                                             | —                                           | —                                            | —                                          | 7.2E+02                                                             | 3.7E+02                                                            | 5.1E+02                                                              | 2.6E+02                                                             | —                                           | —                                            | —                                          | 5.1E+02                                                             | 2.6E+02                                                            |
| Butadiene, 2-methyl-1,3- (isoprene)           | 78-79-5    | —                                                                    | —                                                                   | —                                           | —                                            | —                                          | —                                                                   | —                                                                  | 2.8E+05                                                              | 1.4E+05                                                             | 4.9E+03                                     | —                                            | —                                          | 2.8E+05                                                             | 1.4E+05                                                            |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                        | CAS        | Carcinogenic                                                                   |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           | Noncarcinogenic                                                                |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           |
|------------------------------------------------------------|------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                            |            | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Butanal (butyraldehyde)                                    | 123-72-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.5E+03                                                                        | 7.9E+02                                                                       | 4.9E+03                        | —                               | —                             | 1.5E+03                                                                                    | 7.9E+02                                                                                   |
| Butane, 2,3-dimethyl-                                      | 79-29-8    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.8E+05                                                                        | 1.4E+05                                                                       | 4.9E+03                        | —                               | —                             | 2.8E+05                                                                                    | 1.4E+05                                                                                   |
| Butanoic acid (butyric acid)                               | 107-92-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.3E+02                                                                        | 6.6E+01                                                                       | 4.1E+04                        | 1.8E+05                         | —                             | 1.3E+02                                                                                    | 6.6E+01                                                                                   |
| Butanol, 2-                                                | 78-92-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.0E+06                                                                        | 7.2E+05                                                                       | 1.6E+05                        | —                               | —                             | 1.0E+06                                                                                    | 7.2E+05                                                                                   |
| Butanol, 2-methyl-1-                                       | 137-32-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+02                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Butanol, 2-methyl-2-                                       | 75-85-4    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+02                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Butanol, n-                                                | 71-36-3    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Butene, 1-                                                 | 106-98-9   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 8.1E+04                                                                        | 4.2E+04                                                                       | 4.9E+03                        | —                               | —                             | 8.1E+04                                                                                    | 4.2E+04                                                                                   |
| Butene, cis-2-                                             | 590-18-1   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.5E+04                                                                        | 1.3E+04                                                                       | 4.9E+03                        | —                               | —                             | 2.5E+04                                                                                    | 1.3E+04                                                                                   |
| Butene, trans-2-                                           | 624-64-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.5E+04                                                                        | 1.3E+04                                                                       | 4.9E+03                        | —                               | —                             | 2.5E+04                                                                                    | 1.3E+04                                                                                   |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.9E+05                                                                        | 1.5E+05                                                                       | 8.2E+03                        | 3.6E+04                         | —                             | 2.9E+05                                                                                    | 1.5E+05                                                                                   |
| Butyl acetate                                              | 123-86-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 8.4E+04                                                                        | 4.3E+04                                                                       | 1.1E+04                        | —                               | —                             | 8.4E+04                                                                                    | 4.3E+04                                                                                   |
| Butyl acrylate                                             | 141-32-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 7.4E+02                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Butyl benzyl phthalate                                     | 85-68-7    | —                                                                              | —                                                                             | 3.2E+03                        | 1.1E+04                         | 4.6E+03                       | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+04                        | 7.1E+04                         | 4.7E+04                       | —                                                                                          | —                                                                                         |
| Butyl ether, n- (dibutyl ether)                            | 142-96-1   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Butyl methacrylate                                         | 97-88-1    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 7.4E+03                        | 6.4E+03                         | —                             | —                                                                                          | —                                                                                         |
| Butylate                                                   | 2008-41-5  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+03                        | 1.8E+04                         | —                             | —                                                                                          | —                                                                                         |
| Butylbenzene, n-                                           | 104-51-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+03                        | 1.8E+04                         | —                             | —                                                                                          | —                                                                                         |
| Butylbenzene, sec-                                         | 135-98-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Butylbenzene, tert-                                        | 98-06-6    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Cacodylic acid                                             | 75-60-5    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Cadmium                                                    | 7440-43-9  | 4.6E+04                                                                        | 2.4E+04                                                                       | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.1E+04                                                                        | 5.5E+03                                                                       | 2.6E+02                        | 2.3E+03                         | 6.7E+01                       | —                                                                                          | —                                                                                         |
| Calcium*                                                   | 7440-70-2  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Caprolactam                                                | 105-60-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+04                        | 1.8E+05                         | —                             | —                                                                                          | —                                                                                         |
| Captan                                                     | 133-06-2   | —                                                                              | —                                                                             | 1.7E+03                        | 5.9E+03                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.1E+04                        | 4.6E+04                         | —                             | —                                                                                          | —                                                                                         |
| Carbaryl                                                   | 63-25-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | —                             | —                                                                                          | —                                                                                         |
| Carbazole                                                  | 86-74-8    | —                                                                              | —                                                                             | 3.0E+02                        | 1.0E+03                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Carbofuran                                                 | 1563-66-2  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+02                        | 1.8E+03                         | —                             | —                                                                                          | —                                                                                         |
| Carbon disulfide                                           | 75-15-0    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.1E+04                                                                        | 5.5E+03                                                                       | 8.2E+03                        | —                               | —                             | 1.1E+04                                                                                    | 5.5E+03                                                                                   |
| Carbon tetrachloride                                       | 56-23-5    | 9.9E+01                                                                        | 5.1E+01                                                                       | 8.7E+01                        | —                               | —                             | 9.9E+01                                                                                    | 5.1E+01                                                                                   | 2.5E+03                                                                        | 1.3E+03                                                                       | 3.3E+02                        | —                               | —                             | 2.5E+03                                                                                    | 1.3E+03                                                                                   |
| Carbophenothion                                            | 786-19-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.1E+03                        | 4.6E+03                         | 1.6E+04                       | —                                                                                          | —                                                                                         |
| Carbosulfan                                                | 55285-14-8 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+02                        | 3.6E+03                         | 1.2E+03                       | —                                                                                          | —                                                                                         |
| Carboxin                                                   | 5234-68-4  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | —                             | —                                                                                          | —                                                                                         |
| Chloral                                                    | 75-87-6    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)         | 302-17-0   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | —                             | —                                                                                          | —                                                                                         |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid)      | 133-90-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.2E+03                        | 5.3E+03                         | —                             | —                                                                                          | —                                                                                         |
| Chlordane (technical)                                      | 12789-03-6 | 1.2E+03                                                                        | 6.4E+02                                                                       | 1.7E+01                        | 1.5E+02                         | 9.7E+00                       | 1.2E+03                                                                                    | 6.4E+02                                                                                   | 3.7E+03                                                                        | 1.9E+03                                                                       | 4.1E+01                        | 4.4E+02                         | 4.6E+01                       | 3.7E+03                                                                                    | 1.9E+03                                                                                   |
| Chlordane, cis- (alpha chlordane)                          | 5103-71-9  | 4.0E+03                                                                        | 2.1E+03                                                                       | 1.7E+01                        | 5.9E+01                         | 3.0E+02                       | 4.1E+03                                                                                    | 2.1E+03                                                                                   | 1.2E+04                                                                        | 6.2E+03                                                                       | 4.1E+01                        | 1.8E+02                         | 1.4E+03                       | 1.2E+04                                                                                    | 6.3E+03                                                                                   |
| Chlordane, trans- (gamma chlordane)                        | 5103-74-2  | 9.6E+02                                                                        | 5.0E+02                                                                       | 1.7E+01                        | 5.9E+01                         | 1.7E+01                       | 9.7E+02                                                                                    | 5.0E+02                                                                                   | 2.9E+03                                                                        | 1.5E+03                                                                       | 4.1E+01                        | 1.8E+02                         | 7.8E+01                       | 2.9E+03                                                                                    | 1.5E+03                                                                                   |
| Chlorfenvinphos                                            | 470-90-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.1E+01                                                                        | 1.6E+01                                                                       | 5.7E+01                        | 2.5E+02                         | 5.2E+01                       | 3.1E+01                                                                                    | 1.6E+01                                                                                   |
| Chloride*                                                  | 16887-00-6 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Chlorine                                                   | 7782-50-5  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.3E+02                                                                        | 6.9E+01                                                                       | 8.2E+03                        | 7.1E+04                         | —                             | 1.3E+02                                                                                    | 6.9E+01                                                                                   |
| Chloro-1,3-butadiene, 2-                                   | 126-99-8   | 1.2E+00                                                                        | 6.1E-01                                                                       | —                              | —                               | —                             | 1.2E+00                                                                                    | 6.1E-01                                                                                   | 3.1E+02                                                                        | 1.6E+02                                                                       | —                              | —                               | —                             | 3.1E+02                                                                                    | 1.6E+02                                                                                   |
| Chloro-2-propanol, 1-                                      | 127-00-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Chloro-3-methylphenol, 4-                                  | 59-50-7    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+02                        | 1.8E+03                         | —                             | —                                                                                          | —                                                                                         |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | Carcinogenic                                                                  |                                                                              |                                |                                 |                               |                                                                              |                                                                             | Noncarcinogenic                                                               |                                                                              |                                |                                 |                               |                                                                              |                                                                             |
|---------------------------------------------------|------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                                   |            | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>30 acre<br>source area<br>(mg/kg) |
| Chloroaniline, p-                                 | 106-47-8   | —                                                                             | —                                                                            | 3.0E+01                        | 1.0E+02                         | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+02                        | 1.4E+03                         | —                             | —                                                                            | —                                                                           |
| Chlorobenzene                                     | 108-90-7   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 7.7E+02                                                                       | 3.9E+02                                                                      | 1.6E+03                        | —                               | —                             | 7.7E+02                                                                      | 3.9E+02                                                                     |
| Chlorobenzilate                                   | 510-15-6   | 3.5E+02                                                                       | 1.8E+02                                                                      | 2.2E+01                        | 7.7E+01                         | —                             | 3.5E+02                                                                      | 1.8E+02                                                                     | —                                                                             | —                                                                            | 1.6E+03                        | 7.1E+03                         | —                             | —                                                                            | —                                                                           |
| Chlorobromomethane (bromochloromethane)           | 74-97-5    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+03                        | —                               | —                             | —                                                                            | —                                                                           |
| Chlorodifluoromethane                             | 75-45-6    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 7.7E+05                                                                       | 3.9E+05                                                                      | —                              | —                               | —                             | 7.7E+05                                                                      | 3.9E+05                                                                     |
| Chloroethane (ethyl chloride)                     | 75-00-3    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.5E+05                                                                       | 7.9E+04                                                                      | 3.3E+04                        | —                               | —                             | 1.5E+05                                                                      | 7.9E+04                                                                     |
| Chloroethanol, 2-                                 | 107-07-3   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+03                        | —                               | —                             | —                                                                            | —                                                                           |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether) | 110-75-8   | —                                                                             | —                                                                            | 5.5E+00                        | —                               | —                             | —                                                                            | —                                                                           | 4.6E+00                                                                       | 2.4E+00                                                                      | 1.6E+02                        | —                               | —                             | 4.6E+00                                                                      | 2.4E+00                                                                     |
| Chloroform                                        | 67-66-3    | 1.6E+01                                                                       | 8.0E+00                                                                      | —                              | —                               | —                             | 1.6E+01                                                                      | 8.0E+00                                                                     | 1.5E+03                                                                       | 7.7E+02                                                                      | 8.2E+02                        | —                               | —                             | 1.5E+03                                                                      | 7.7E+02                                                                     |
| Chlorohexane, 1-                                  | 544-10-5   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.5E+04                                                                       | 7.9E+03                                                                      | 3.3E+03                        | —                               | —                             | 1.5E+04                                                                      | 7.9E+03                                                                     |
| Chloromethane (methyl chloride)                   | 74-87-3    | 2.0E+02                                                                       | 1.0E+02                                                                      | 4.7E+02                        | —                               | —                             | 2.0E+02                                                                      | 1.0E+02                                                                     | 1.4E+03                                                                       | 7.1E+02                                                                      | 2.9E+02                        | —                               | —                             | 1.4E+03                                                                      | 7.1E+02                                                                     |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-) | 90-13-1    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 6.6E+03                        | 2.2E+04                         | 5.2E+04                       | —                                                                            | —                                                                           |
| Chloronaphthalene, 2- (chloronaphthalene, beta)   | 91-58-7    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 6.6E+03                        | 2.2E+04                         | —                             | —                                                                            | —                                                                           |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)  | 100-00-5   | —                                                                             | —                                                                            | 9.6E+02                        | 3.3E+03                         | —                             | —                                                                            | —                                                                           | 6.3E+01                                                                       | 3.2E+01                                                                      | 8.2E+01                        | 3.6E+02                         | —                             | 6.3E+01                                                                      | 3.2E+01                                                                     |
| Chlorophenol, 2-                                  | 95-57-8    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+02                        | —                               | —                             | —                                                                            | —                                                                           |
| Chlorophenol, 3-                                  | 108-43-0   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+02                        | 1.8E+03                         | —                             | —                                                                            | —                                                                           |
| Chlorophenol, 4-                                  | 106-48-9   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+02                        | 1.8E+03                         | —                             | —                                                                            | —                                                                           |
| Chlorophenyl phenylether, 4-                      | 7005-72-3  | 2.5E+00                                                                       | 1.3E+00                                                                      | 4.0E-01                        | 1.4E+00                         | 3.9E-01                       | 2.5E+00                                                                      | 1.3E+00                                                                     | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Chloropropane, 2-                                 | 75-29-6    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.5E+03                                                                       | 7.9E+02                                                                      | 2.5E+03                        | —                               | —                             | 1.5E+03                                                                      | 7.9E+02                                                                     |
| Chlorothalonil                                    | 1897-45-6  | —                                                                             | —                                                                            | 5.5E+02                        | 1.9E+03                         | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.2E+03                        | 5.3E+03                         | —                             | —                                                                            | —                                                                           |
| Chlorotoluene, o- (2-chlorotoluene)               | 95-49-8    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.3E+04                                                                       | 6.8E+03                                                                      | 1.6E+03                        | 7.1E+03                         | —                             | 1.3E+04                                                                      | 6.8E+03                                                                     |
| Chlorotoluene, p- (4-chlorotoluene)               | 106-43-4   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+03                        | —                               | —                             | —                                                                            | —                                                                           |
| Chlorpyrifos                                      | 2921-88-2  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.5E+02                        | 1.1E+03                         | 3.6E+02                       | —                                                                            | —                                                                           |
| Chromium (III)                                    | 16065-83-1 | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.4E+05                                                                       | 7.0E+04                                                                      | 1.2E+05                        | 6.9E+04                         | 1.0E+06                       | —                                                                            | —                                                                           |
| Chromium (total)                                  | 7440-47-3  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.4E+05                                                                       | 7.0E+04                                                                      | 1.2E+05                        | 6.9E+04                         | 1.0E+06                       | —                                                                            | —                                                                           |
| Chromium (VI)                                     | 18540-29-9 | 9.8E+03                                                                       | 5.1E+03                                                                      | —                              | —                               | —                             | —                                                                            | —                                                                           | 2.1E+05                                                                       | 1.1E+05                                                                      | 2.5E+02                        | 2.7E+02                         | 2.9E+03                       | —                                                                            | —                                                                           |
| Chrysene                                          | 218-01-9   | 8.5E+05                                                                       | 4.4E+05                                                                      | 6.1E+03                        | 1.6E+04                         | 5.9E+04                       | 8.7E+05                                                                      | 4.5E+05                                                                     | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Cobalt                                            | 7440-48-4  | 3.8E+03                                                                       | 1.9E+03                                                                      | —                              | —                               | —                             | —                                                                            | —                                                                           | 6.1E+04                                                                       | 3.1E+04                                                                      | 8.2E+02                        | 3.6E+04                         | 5.0E+03                       | —                                                                            | —                                                                           |
| Copolymer acrylamide                              | 69418-26-4 | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+01                        | 7.1E+01                         | —                             | —                                                                            | —                                                                           |
| Copper                                            | 7440-50-8  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 7.9E+03                        | 3.4E+05                         | 1.6E+03                       | —                                                                            | —                                                                           |
| Coronene                                          | 191-07-1   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+02                        | 7.1E+02                         | 7.6E+03                       | —                                                                            | —                                                                           |
| Coumaphos                                         | 56-72-4    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 5.7E+02                        | 2.5E+03                         | 5.3E+03                       | —                                                                            | —                                                                           |
| Cresol                                            | 1319-77-3  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+03                        | 1.8E+04                         | —                             | —                                                                            | —                                                                           |
| Cresol, m- (3-methylphenol)                       | 108-39-4   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+03                        | 1.8E+04                         | —                             | —                                                                            | —                                                                           |
| Cresol, o- (2-methylphenol)                       | 95-48-7    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+03                        | 1.8E+04                         | —                             | —                                                                            | —                                                                           |
| Cresol, p- (4-methylphenol)                       | 106-44-5   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+02                        | 1.8E+03                         | —                             | —                                                                            | —                                                                           |
| Crotonaldehyde                                    | 123-73-9   | —                                                                             | —                                                                            | 3.2E+00                        | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+01                        | —                               | —                             | —                                                                            | —                                                                           |
| Cumene (isopropylbenzene)                         | 98-82-8    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 9.2E+03                                                                       | 4.8E+03                                                                      | 8.2E+03                        | —                               | —                             | 9.2E+03                                                                      | 4.8E+03                                                                     |
| Cyanazine                                         | 21725-46-2 | —                                                                             | —                                                                            | 7.2E+00                        | 2.5E+01                         | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+02                        | 7.1E+02                         | —                             | —                                                                            | —                                                                           |
| Cyanide                                           | 57-12-5    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 7.2E+02                                                                       | 3.7E+02                                                                      | 4.9E+01                        | 2.1E+03                         | —                             | 7.2E+02                                                                      | 3.7E+02                                                                     |
| Cyanogen                                          | 460-19-5   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.2E+01                                                                       | 6.3E+00                                                                      | 8.2E+01                        | —                               | —                             | 1.2E+01                                                                      | 6.3E+00                                                                     |
| Cycloate                                          | 1134-23-2  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.5E+03                        | 2.0E+04                         | —                             | —                                                                            | —                                                                           |
| Cyclohexane                                       | 110-82-7   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 9.2E+04                                                                       | 4.7E+04                                                                      | 4.1E+05                        | —                               | —                             | 9.2E+04                                                                      | 4.7E+04                                                                     |
| Cyclohexanol                                      | 108-93-0   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+05                        | 1.0E+06                         | —                             | —                                                                            | —                                                                           |
| Cyclohexanone                                     | 108-94-1   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 3.5E+04                                                                       | 1.8E+04                                                                      | 4.1E+05                        | —                               | —                             | 3.5E+04                                                                      | 1.8E+04                                                                     |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | Carcinogenic                                                                  |                                                                              |                                               |                                                |                                              |                                                                              |                                                                             | Noncarcinogenic                                                               |                                                                              |                                               |                                                |                                              |                                                                              |                                                                             |
|----------------------------------------------------|------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                                    |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil<sub>Ing</sub></sub><br>(mg/kg) | Soil <sub>Soil<sub>Derm</sub></sub><br>(mg/kg) | Veg <sub>Soil<sub>Ing</sub></sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil<sub>Ing</sub></sub><br>(mg/kg) | Soil <sub>Soil<sub>Derm</sub></sub><br>(mg/kg) | Veg <sub>Soil<sub>Ing</sub></sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub><br>30 acre<br>source area<br>(mg/kg) |
| Cyclohexene, 1-methanol-3-                         | 1679-51-2  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+03                                       | 7.1E+03                                        | —                                            | —                                                                            | —                                                                           |
| Cyclohexene, 4-vinyl-1-                            | 100-40-3   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 5.1E+03                                                                       | 2.6E+03                                                                      | 1.8E+03                                       | —                                              | —                                            | 5.1E+03                                                                      | 2.6E+03                                                                     |
| Cyclopentane                                       | 287-92-3   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 3.7E+05                                                                       | 1.9E+05                                                                      | 4.9E+03                                       | —                                              | —                                            | 3.7E+05                                                                      | 1.9E+05                                                                     |
| Cyclopentane, methyl-                              | 96-37-7    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 1.5E+04                                                                       | 7.9E+03                                                                      | 8.2E+03                                       | —                                              | —                                            | 1.5E+04                                                                      | 7.9E+03                                                                     |
| Cyclopentene                                       | 142-29-0   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+05                                       | —                                              | —                                            | —                                                                            | —                                                                           |
| Cyclotetramethylenetetranitramine (HMX)            | 2691-41-0  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+03                                       | 2.7E+03                                        | —                                            | —                                                                            | —                                                                           |
| Cyclotrimethylenetrinitramine (RDX)                | 121-82-4   | —                                                                             | —                                                                            | 7.6E+01                                       | 2.6E+02                                        | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+02                                       | 1.4E+03                                        | —                                            | —                                                                            | —                                                                           |
| Cymene (isopropyltoluene)                          | 99-87-6    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+03                                       | —                                              | —                                            | —                                                                            | —                                                                           |
| Cymoxanil                                          | 57966-95-7 | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.1E+03                                       | 4.6E+03                                        | —                                            | —                                                                            | —                                                                           |
| Dacthal (DCPA)                                     | 1861-32-1  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+02                                       | 3.6E+03                                        | 1.0E+04                                      | —                                                                            | —                                                                           |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)  | 75-99-0    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.5E+03                                       | 1.1E+04                                        | —                                            | —                                                                            | —                                                                           |
| DDD                                                | 72-54-8    | —                                                                             | —                                                                            | 2.5E+01                                       | 2.9E+02                                        | 3.7E+01                                      | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| DDE                                                | 72-55-9    | —                                                                             | —                                                                            | 1.8E+01                                       | 2.0E+02                                        | 2.7E+01                                      | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| DDT                                                | 50-29-3    | 1.2E+03                                                                       | 6.2E+02                                                                      | 1.8E+01                                       | 2.0E+02                                        | 8.1E+00                                      | 1.2E+03                                                                      | 6.2E+02                                                                     | —                                                                             | —                                                                            | 4.1E+01                                       | 5.9E+02                                        | 3.7E+01                                      | —                                                                            | —                                                                           |
| Demeton                                            | 8065-48-3  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+00                                       | 1.4E+01                                        | —                                            | —                                                                            | —                                                                           |
| Desethylatrazine                                   | 6190-65-4  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.9E+03                                       | 1.2E+04                                        | —                                            | —                                                                            | —                                                                           |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone) | 123-42-2   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+03                                       | 1.4E+04                                        | —                                            | —                                                                            | —                                                                           |
| Diallate                                           | 2303-16-4  | —                                                                             | —                                                                            | 1.0E+02                                       | 3.4E+02                                        | 7.6E+01                                      | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Diazinon                                           | 333-41-5   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 6.5E+01                                                                       | 3.3E+01                                                                      | 7.4E+01                                       | 3.2E+02                                        | —                                            | 6.5E+01                                                                      | 3.3E+01                                                                     |
| Dibenz(a,h)acridine                                | 226-36-8   | 1.4E+04                                                                       | 7.4E+03                                                                      | 5.1E+00                                       | 1.7E+01                                        | 6.6E+01                                      | 1.5E+04                                                                      | 7.9E+03                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Dibenz(a,j)acridine                                | 224-42-0   | 1.9E+04                                                                       | 1.0E+04                                                                      | 8.3E+00                                       | 2.2E+01                                        | 1.4E+02                                      | 2.1E+04                                                                      | 1.1E+04                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Dibenz-a,h-anthracene                              | 53-70-3    | 2.7E+03                                                                       | 1.4E+03                                                                      | 6.1E+00                                       | 1.6E+01                                        | 4.6E+01                                      | 2.9E+03                                                                      | 1.5E+03                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Dibenzo(a,e)pyrene                                 | 192-65-4   | 5.6E+03                                                                       | 2.9E+03                                                                      | 8.3E-01                                       | 2.8E+00                                        | 1.1E+01                                      | 7.2E+03                                                                      | 3.7E+03                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Dibenzo(a,h)pyrene                                 | 189-64-0   | 5.5E+02                                                                       | 2.8E+02                                                                      | 8.3E-02                                       | 2.8E-01                                        | 1.1E+00                                      | 7.0E+02                                                                      | 3.6E+02                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Dibenzo(a,i)pyrene                                 | 189-55-9   | 5.5E+02                                                                       | 2.8E+02                                                                      | 8.3E-02                                       | 2.8E-01                                        | 1.1E+00                                      | 7.0E+02                                                                      | 3.6E+02                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Dibenzofuran                                       | 132-64-9   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+02                                       | 1.4E+03                                        | —                                            | —                                                                            | —                                                                           |
| Dibenzothiophene                                   | 132-65-0   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.5E+02                                       | 1.1E+03                                        | 2.6E+03                                      | —                                                                            | —                                                                           |
| Dibromo-3-chloropropane, 1,2-                      | 96-12-8    | 1.6E-01                                                                       | 8.1E-02                                                                      | 7.6E+00                                       | 2.6E+01                                        | —                                            | 1.6E-01                                                                      | 8.1E-02                                                                     | 8.1E+00                                                                       | 4.2E+00                                                                      | 1.6E+01                                       | 7.1E+01                                        | —                                            | 8.1E+00                                                                      | 4.2E+00                                                                     |
| Dibromochloromethane (chlorodibromomethane)        | 124-48-1   | —                                                                             | —                                                                            | 7.2E+01                                       | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+03                                       | —                                              | —                                            | —                                                                            | —                                                                           |
| Dibromofluoromethane                               | 1868-53-7  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+04                                       | —                                              | —                                            | —                                                                            | —                                                                           |
| Dicamba                                            | 1918-00-9  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.5E+03                                       | 1.1E+04                                        | —                                            | —                                                                            | —                                                                           |
| Dichlormid                                         | 37764-25-3 | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+03                                       | 8.9E+03                                        | —                                            | —                                                                            | —                                                                           |
| Dichloro-2-butene, 1,4-                            | 764-41-0   | 2.0E-01                                                                       | 1.0E-01                                                                      | —                                             | —                                              | —                                            | 2.0E-01                                                                      | 1.0E-01                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Dichloro-2-butene, 1,4- trans                      | 110-57-6   | 2.0E-01                                                                       | 1.1E-01                                                                      | —                                             | —                                              | —                                            | 2.0E-01                                                                      | 1.1E-01                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Dichlorobenzene, 1,2-                              | 95-50-1    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 8.0E+02                                                                       | 4.1E+02                                                                      | 7.4E+03                                       | —                                              | —                                            | 8.0E+02                                                                      | 4.1E+02                                                                     |
| Dichlorobenzene, 1,3-                              | 541-73-1   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 1.2E+02                                                                       | 6.3E+01                                                                      | 2.5E+03                                       | —                                              | —                                            | 1.2E+02                                                                      | 6.3E+01                                                                     |
| Dichlorobenzene, 1,4-                              | 106-46-7   | —                                                                             | —                                                                            | 2.5E+02                                       | —                                              | —                                            | —                                                                            | —                                                                           | 1.2E+04                                                                       | 6.1E+03                                                                      | —                                             | —                                              | —                                            | 1.2E+04                                                                      | 6.1E+03                                                                     |
| Dichlorobenzidine, 3,3'-                           | 91-94-1    | —                                                                             | —                                                                            | 1.3E+01                                       | 4.6E+01                                        | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Dichlorobutane, 2,3-                               | 7581-97-7  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 1.1E+02                                                                       | 5.5E+01                                                                      | 8.2E+02                                       | —                                              | —                                            | 1.1E+02                                                                      | 5.5E+01                                                                     |
| Dichlorodifluoromethane                            | 75-71-8    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 1.5E+03                                                                       | 7.9E+02                                                                      | 1.6E+04                                       | —                                              | —                                            | 1.5E+03                                                                      | 7.9E+02                                                                     |
| Dichloroethane, 1,1-                               | 75-34-3    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 3.7E+04                                                                       | 1.9E+04                                                                      | 1.6E+04                                       | —                                              | —                                            | 3.7E+04                                                                      | 1.9E+04                                                                     |
| Dichloroethane, 1,2-                               | 107-06-2   | 1.1E+02                                                                       | 5.4E+01                                                                      | 6.7E+01                                       | —                                              | —                                            | 1.1E+02                                                                      | 5.4E+01                                                                     | 6.8E+02                                                                       | 3.5E+02                                                                      | 6.4E+03                                       | —                                              | —                                            | 6.8E+02                                                                      | 3.5E+02                                                                     |
| Dichloroethylene, 1,1-                             | 75-35-4    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 5.2E+03                                                                       | 2.7E+03                                                                      | 4.1E+03                                       | —                                              | —                                            | 5.2E+03                                                                      | 2.7E+03                                                                     |
| Dichloroethylene, cis-1,2-                         | 156-59-2   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 9.2E+02                                                                       | 4.7E+02                                                                      | 1.6E+02                                       | —                                              | —                                            | 9.2E+02                                                                      | 4.7E+02                                                                     |
| Dichloroethylene, trans-1,2                        | 156-60-5   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 9.2E+02                                                                       | 4.7E+02                                                                      | 1.6E+03                                       | —                                              | —                                            | 9.2E+02                                                                      | 4.7E+02                                                                     |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | Carcinogenic                                                                   |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           | Noncarcinogenic                                                                |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           |
|-------------------------------------------------------|------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                       |            | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Dichlorofluoromethane                                 | 75-43-4    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+04                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Dichlorophenol, 2,3-                                  | 576-24-9   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Dichlorophenol, 2,4-                                  | 120-83-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Dichlorophenol, 2,5-                                  | 583-78-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Dichlorophenol, 2,6-                                  | 87-65-0    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+01                        | 3.6E+02                         | —                             | —                                                                                          | —                                                                                         |
| Dichlorophenol, 3,4-                                  | 95-77-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Dichlorophenol, 3,5-                                  | 591-35-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)       | 94-82-6    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 6.6E+02                        | 2.8E+03                         | —                             | —                                                                                          | —                                                                                         |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)              | 94-75-7    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+04                        | 1.4E+05                         | —                             | —                                                                                          | —                                                                                         |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid) | 120-36-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+02                        | 3.6E+03                         | —                             | —                                                                                          | —                                                                                         |
| Dichloropropane, 1,2-                                 | 78-87-5    | 3.9E+02                                                                        | 2.0E+02                                                                       | 1.6E+02                        | —                               | —                             | 3.9E+02                                                                                    | 2.0E+02                                                                                   | 6.1E+01                                                                        | 3.2E+01                                                                       | 1.1E+04                        | —                               | —                             | 6.1E+01                                                                                    | 3.2E+01                                                                                   |
| Dichloropropane, 1,3-                                 | 142-28-9   | 9.0E+01                                                                        | 4.6E+01                                                                       | 6.1E+01                        | —                               | —                             | 9.0E+01                                                                                    | 4.6E+01                                                                                   | 3.1E+02                                                                        | 1.6E+02                                                                       | 1.6E+03                        | —                               | —                             | 3.1E+02                                                                                    | 1.6E+02                                                                                   |
| Dichloropropane, 2,2-                                 | 594-20-7   | —                                                                              | —                                                                             | 8.9E+01                        | —                               | —                             | —                                                                                          | —                                                                                         | 6.1E+01                                                                        | 3.2E+01                                                                       | 7.4E+03                        | —                               | —                             | 6.1E+01                                                                                    | 3.2E+01                                                                                   |
| Dichloropropanol, 2,3-                                | 616-23-9   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Dichloropropene, 1,1-                                 | 563-58-6   | 9.0E+01                                                                        | 4.6E+01                                                                       | 6.1E+01                        | —                               | —                             | 9.0E+01                                                                                    | 4.6E+01                                                                                   | 3.1E+02                                                                        | 1.6E+02                                                                       | 2.5E+03                        | —                               | —                             | 3.1E+02                                                                                    | 1.6E+02                                                                                   |
| Dichloropropene, 1,3- (mixed isomers)                 | 542-75-6   | 9.0E+01                                                                        | 4.6E+01                                                                       | 6.1E+01                        | —                               | —                             | 9.0E+01                                                                                    | 4.6E+01                                                                                   | 3.1E+02                                                                        | 1.6E+02                                                                       | 2.5E+03                        | —                               | —                             | 3.1E+02                                                                                    | 1.6E+02                                                                                   |
| Dichloropropene, cis 1,3-                             | 10061-01-5 | —                                                                              | —                                                                             | 1.1E+01                        | —                               | —                             | —                                                                                          | —                                                                                         | 3.1E+02                                                                        | 1.6E+02                                                                       | 8.2E+00                        | —                               | —                             | 3.1E+02                                                                                    | 1.6E+02                                                                                   |
| Dichloropropene, trans 1,3-                           | 10061-02-6 | 9.0E+01                                                                        | 4.6E+01                                                                       | 6.1E+01                        | —                               | —                             | 9.0E+01                                                                                    | 4.6E+01                                                                                   | 3.1E+02                                                                        | 1.6E+02                                                                       | 2.5E+03                        | —                               | —                             | 3.1E+02                                                                                    | 1.6E+02                                                                                   |
| Dichlorvos                                            | 62-73-7    | —                                                                              | —                                                                             | 2.1E+01                        | 7.2E+01                         | —                             | —                                                                                          | —                                                                                         | 3.4E+05                                                                        | 1.8E+05                                                                       | 4.1E+01                        | 1.8E+02                         | —                             | 1.0E+06                                                                                    | 6.2E+05                                                                                   |
| Dicrotophos (bidrin)                                  | 141-66-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+00                        | 3.6E+01                         | —                             | —                                                                                          | —                                                                                         |
| Dicyclopentadiene                                     | 77-73-6    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 6.6E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Dieldrin                                              | 60-57-1    | 3.2E+01                                                                        | 1.6E+01                                                                       | 3.8E-01                        | 1.3E+00                         | 2.9E-01                       | 3.2E+01                                                                                    | 1.6E+01                                                                                   | —                                                                              | —                                                                             | 4.1E+00                        | 1.8E+01                         | 6.3E+00                       | —                                                                                          | —                                                                                         |
| Diethanolamine                                        | 111-42-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.5E+03                                                                        | 1.8E+03                                                                       | 4.1E+01                        | 1.8E+02                         | —                             | 3.5E+03                                                                                    | 1.8E+03                                                                                   |
| Diethyldithiocarbamate, sodium salt                   | 148-18-5   | —                                                                              | —                                                                             | 2.2E+01                        | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Diethyl phthalate                                     | 84-66-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 6.6E+04                        | 2.8E+05                         | —                             | —                                                                                          | —                                                                                         |
| Diethylene glycol                                     | 111-46-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+05                        | 7.1E+05                         | —                             | —                                                                                          | —                                                                                         |
| Diethylene glycol monobutyl ether                     | 112-34-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.0E+01                                                                        | 1.0E+01                                                                       | 2.5E+03                        | 1.1E+04                         | —                             | 2.0E+01                                                                                    | 1.0E+01                                                                                   |
| Diethylhexyl adipate                                  | 103-23-1   | —                                                                              | —                                                                             | 5.1E+03                        | 1.7E+04                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.9E+04                        | 2.1E+05                         | —                             | —                                                                                          | —                                                                                         |
| Diethylstilbestrol                                    | 56-53-1    | —                                                                              | —                                                                             | 1.3E-03                        | 4.4E-03                         | 2.5E-03                       | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)           | 107-39-1   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.1E+03                                                                        | 1.6E+03                                                                       | 4.9E+03                        | —                               | —                             | 3.1E+03                                                                                    | 1.6E+03                                                                                   |
| Diisopropylbenzene, p-                                | 100-18-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+02                        | 3.6E+03                         | —                             | —                                                                                          | —                                                                                         |
| Diisopropyl ether (2,2'-oxybis-propane)               | 108-20-3   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.1E+04                                                                        | 5.5E+03                                                                       | 8.2E+03                        | —                               | —                             | 1.1E+04                                                                                    | 5.5E+03                                                                                   |
| Dimethenamid                                          | 87674-68-8 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.2E+03                        | 5.3E+03                         | —                             | —                                                                                          | —                                                                                         |
| Dimethoate                                            | 60-51-5    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+01                        | 7.1E+01                         | —                             | —                                                                                          | —                                                                                         |
| Dimethoxybenzidine, 3,3'-                             | 119-90-4   | —                                                                              | —                                                                             | 4.3E+02                        | 1.5E+03                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Dimethyl-2-nitrobenzene, 1,3-                         | 81-20-9    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.7E+03                                                                        | 1.4E+03                                                                       | 1.6E+02                        | 7.1E+02                         | —                             | 2.8E+03                                                                                    | 1.4E+03                                                                                   |
| Dimethyl-3-nitrobenzene, 1,2-                         | 83-41-0    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.4E+03                                                                        | 1.2E+03                                                                       | 1.6E+02                        | 7.1E+02                         | —                             | 2.4E+03                                                                                    | 1.2E+03                                                                                   |
| Dimethyl-4-nitrobenzene, 1-2-                         | 99-51-4    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.5E+03                                                                        | 1.3E+03                                                                       | 1.6E+02                        | 7.1E+02                         | —                             | 2.5E+03                                                                                    | 1.3E+03                                                                                   |
| Dimethyl-5-nitrobenzene, 1,3-                         | 99-12-7    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.2E+03                                                                        | 1.1E+03                                                                       | 1.6E+02                        | 7.1E+02                         | —                             | 2.2E+03                                                                                    | 1.1E+03                                                                                   |
| Dimethylphenethylamine, alpha, alpha-                 | 122-09-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+02                        | 7.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Dimethyl phenol, 2,4-                                 | 105-67-9   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+03                        | 7.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Dimethylaminoazobenzene, p-                           | 60-11-7    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E-01                        | 3.6E+00                         | 1.5E+01                       | —                                                                                          | —                                                                                         |
| Dimethylbenz-a-anthracene, 7,12-                      | 57-97-6    | 1.2E+02                                                                        | 6.3E+01                                                                       | 2.4E-02                        | 6.4E-02                         | 3.7E-01                       | 1.4E+02                                                                                    | 7.3E+01                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Dimethylbenzidine, 3,3'-                              | 119-93-7   | —                                                                              | —                                                                             | 5.5E-01                        | 1.9E+00                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Dimethylformamide, N,N-                               | 68-12-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.2E+03                                                                        | 1.6E+03                                                                       | 8.2E+03                        | —                               | —                             | 3.2E+03                                                                                    | 1.6E+03                                                                                   |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                           | CAS        | Carcinogenic                                                                   |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           | Noncarcinogenic                                                                |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           |
|---------------------------------------------------------------|------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                               |            | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Dimethylnaphthalene, 1,3-                                     | 575-41-7   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+03                        | 1.1E+04                         | 3.1E+04                       | —                                                                                          | —                                                                                         |
| Dimethylphthalate                                             | 131-11-3   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 6.6E+04                        | 2.8E+05                         | —                             | —                                                                                          | —                                                                                         |
| Di-n-butyl phthalate                                          | 84-74-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | 8.7E+04                       | —                                                                                          | —                                                                                         |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)        | 534-52-1   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+00                        | 3.6E+01                         | —                             | —                                                                                          | —                                                                                         |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)                   | 99-65-0    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+00                        | 3.6E+01                         | —                             | —                                                                                          | —                                                                                         |
| Dinitrobenzene, 1,4-                                          | 100-25-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+00                        | 3.6E+01                         | —                             | —                                                                                          | —                                                                                         |
| Dinitrophenol, 2,4-                                           | 51-28-5    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+02                        | 7.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Dinitrophenol, 2,5-                                           | 329-71-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+02                        | 7.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Dinitrotoluene, 2,4-                                          | 121-14-2   | —                                                                              | —                                                                             | 8.9E+00                        | 3.1E+01                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+02                        | 7.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Dinitrotoluene, 2,6-                                          | 606-20-2   | —                                                                              | —                                                                             | 8.9E+00                        | 3.1E+01                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+01                        | 3.6E+02                         | —                             | —                                                                                          | —                                                                                         |
| Di-n-octyl phthalate                                          | 117-84-0   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+02                        | 3.6E+03                         | 2.0E+04                       | —                                                                                          | —                                                                                         |
| Dinoseb                                                       | 88-85-7    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+01                        | 3.6E+02                         | —                             | —                                                                                          | —                                                                                         |
| Dioxane 1,4-                                                  | 123-91-1   | 1.8E+02                                                                        | 9.3E+01                                                                       | 6.1E+01                        | —                               | —                             | 1.8E+02                                                                                    | 9.3E+01                                                                                   | 4.2E+03                                                                        | 2.2E+03                                                                       | 2.5E+03                        | —                               | —                             | 4.2E+03                                                                                    | 2.2E+03                                                                                   |
| Dioxin (as 2,3,7,8-TCDD toxicity equivalent quotients (TEQs)) | 1746-01-6  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 5.7E-05                        | 8.3E-04                         | 3.6E-03                       | —                                                                                          | —                                                                                         |
| Diphenyl ether                                                | 101-84-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 5.1E+02                        | 2.2E+03                         | 4.5E+03                       | —                                                                                          | —                                                                                         |
| Diphenylamine                                                 | 122-39-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.0E+03                        | 8.9E+03                         | —                             | —                                                                                          | —                                                                                         |
| Diphenylhydrazine, 1,2-                                       | 122-66-7   | 1.4E+02                                                                        | 7.2E+01                                                                       | 7.6E+00                        | 2.6E+01                         | —                             | 1.4E+02                                                                                    | 7.2E+01                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Dipropylene glycol                                            | 110-98-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 9.8E+03                        | 4.3E+04                         | —                             | —                                                                                          | —                                                                                         |
| Disquat                                                       | 85-00-7    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.8E+02                        | 7.8E+02                         | —                             | —                                                                                          | —                                                                                         |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)   | 142-73-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+02                        | 3.6E+03                         | —                             | —                                                                                          | —                                                                                         |
| Disulfoton                                                    | 298-04-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+00                        | 1.4E+01                         | —                             | —                                                                                          | —                                                                                         |
| Diuron                                                        | 330-54-1   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+02                        | 7.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Dodecylphenol, 4-                                             | 104-43-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+03                        | 1.8E+04                         | 3.9E+05                       | —                                                                                          | —                                                                                         |
| Endosulfan                                                    | 115-29-7   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.9E+02                        | 2.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Endosulfan I                                                  | 959-98-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+02                        | 7.1E+02                         | 2.9E+02                       | —                                                                                          | —                                                                                         |
| Endosulfan II                                                 | 33213-65-9 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.9E+02                        | 2.1E+03                         | 8.6E+02                       | —                                                                                          | —                                                                                         |
| Endosulfan sulfate                                            | 1031-07-8  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.9E+02                        | 2.1E+03                         | 1.0E+04                       | —                                                                                          | —                                                                                         |
| Endothall                                                     | 145-73-3   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+03                        | 7.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Endrin                                                        | 72-20-8    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | 1.6E+01                       | —                                                                                          | —                                                                                         |
| Endrin aldehyde                                               | 7421-93-4  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | 6.5E+02                       | —                                                                                          | —                                                                                         |
| Endrin ketone                                                 | 53494-70-5 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | 3.8E+02                       | —                                                                                          | —                                                                                         |
| Epichlorohydrin                                               | 106-89-8   | 5.1E+02                                                                        | 2.6E+02                                                                       | 6.1E+02                        | —                               | —                             | 5.1E+02                                                                                    | 2.6E+02                                                                                   | 2.6E+01                                                                        | 1.4E+01                                                                       | 4.9E+02                        | —                               | —                             | 2.6E+01                                                                                    | 1.4E+01                                                                                   |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate)         | 2104-64-5  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E-01                        | 3.6E+00                         | —                             | —                                                                                          | —                                                                                         |
| Esfenvalerate                                                 | 66230-04-4 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+02                        | 7.1E+02                         | 1.7E+02                       | —                                                                                          | —                                                                                         |
| Ethalfuralin (sonolan)                                        | 55283-68-6 | —                                                                              | —                                                                             | 6.8E+01                        | 2.3E+02                         | 4.5E+02                       | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+03                        | 1.4E+04                         | 4.3E+04                       | —                                                                                          | —                                                                                         |
| Ethanol                                                       | 64-17-5    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.0E+06                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Ethanol, 2-amino-                                             | 141-43-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.9E+03                                                                        | 1.5E+03                                                                       | 1.4E+02                        | 6.0E+02                         | —                             | 2.9E+03                                                                                    | 1.5E+03                                                                                   |
| Ethanol, 2-(2-aminoethoxy)-                                   | 929-06-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+01                        | 1.8E+02                         | —                             | —                                                                                          | —                                                                                         |
| Ethanol, 2-(2-ethoxyethoxy)-                                  | 111-90-0   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+05                        | 7.1E+05                         | —                             | —                                                                                          | —                                                                                         |
| Ethanol, 2-(methylamino)-                                     | 109-83-1   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 6.4E+03                                                                        | 3.3E+03                                                                       | 5.7E+03                        | —                               | —                             | 6.4E+03                                                                                    | 3.3E+03                                                                                   |
| Ethion                                                        | 563-12-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+01                        | 1.8E+02                         | 1.6E+02                       | —                                                                                          | —                                                                                         |
| Ethoprop                                                      | 13194-48-4 | —                                                                              | —                                                                             | 2.2E+02                        | 7.4E+02                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+00                        | 3.6E+01                         | —                             | —                                                                                          | —                                                                                         |
| Ethoxy ethanol, 2-                                            | 110-80-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.5E+04                                                                        | 1.3E+04                                                                       | 7.4E+03                        | —                               | —                             | 2.5E+04                                                                                    | 1.3E+04                                                                                   |
| Ethyl acetate                                                 | 141-78-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.7E+03                                                                        | 1.9E+03                                                                       | 7.4E+04                        | —                               | —                             | 3.7E+03                                                                                    | 1.9E+03                                                                                   |
| Ethyl acrylate                                                | 140-88-5   | —                                                                              | —                                                                             | 1.3E+02                        | —                               | —                             | —                                                                                          | —                                                                                         | 2.4E+02                                                                        | 1.2E+02                                                                       | 4.1E+02                        | —                               | —                             | 2.4E+02                                                                                    | 1.2E+02                                                                                   |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | Carcinogenic                                                                  |                                                                              |                                |                                 |                               |                                                                              |                                                                             | Noncarcinogenic                                                               |                                                                              |                                |                                 |                               |                                                                              |                                                                             |
|---------------------------------------------------|------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                                   |            | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>30 acre<br>source area<br>(mg/kg) |
| Ethyl benzene                                     | 100-41-4   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 2.9E+04                                                                       | 1.5E+04                                                                      | 8.2E+03                        | —                               | —                             | 2.9E+04                                                                      | 1.5E+04                                                                     |
| Ethyl dipropylthiocarbamate, S-                   | 759-94-4   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+03                        | 8.9E+03                         | —                             | —                                                                            | —                                                                           |
| Ethyl ether                                       | 60-29-7    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+04                        | —                               | —                             | —                                                                            | —                                                                           |
| Ethyl methacrylate                                | 97-63-2    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 7.1E+03                                                                       | 3.6E+03                                                                      | 7.4E+03                        | —                               | —                             | 7.1E+03                                                                      | 3.6E+03                                                                     |
| Ethyl methanesulfonate                            | 62-50-0    | 1.2E+02                                                                       | 6.1E+01                                                                      | 6.1E+01                        | 2.1E+02                         | —                             | 1.2E+02                                                                      | 6.1E+01                                                                     | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)  | 637-92-3   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 4.6E+03                                                                       | 2.4E+03                                                                      | 8.2E+01                        | —                               | —                             | 4.6E+03                                                                      | 2.4E+03                                                                     |
| Ethyl-1-hexanol, 2-                               | 104-76-7   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.2E+04                        | 5.3E+04                         | —                             | —                                                                            | —                                                                           |
| Ethyl-2-hexenal, 2-                               | 645-62-5   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.2E+04                        | —                               | —                             | —                                                                            | —                                                                           |
| Ethyl-2-methyl benzene, 1-                        | 611-14-3   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 8.4E+03                                                                       | 4.3E+03                                                                      | 4.1E+03                        | —                               | —                             | 8.4E+03                                                                      | 4.3E+03                                                                     |
| Ethyl-4-methyl benzene, 1-                        | 622-96-8   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 7.2E+03                                                                       | 3.7E+03                                                                      | 4.1E+03                        | —                               | —                             | 7.2E+03                                                                      | 3.7E+03                                                                     |
| Ethylene*                                         | 74-85-1    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Ethylene dibromide (dibromoethane, 1,2- )         | 106-93-4   | 1.3E+01                                                                       | 6.8E+00                                                                      | 3.0E+00                        | —                               | —                             | 1.3E+01                                                                      | 6.8E+00                                                                     | 1.7E+03                                                                       | 8.6E+02                                                                      | 7.4E+02                        | —                               | —                             | 1.7E+03                                                                      | 8.6E+02                                                                     |
| Ethylene glycol                                   | 107-21-1   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+05                        | 7.1E+05                         | —                             | —                                                                            | —                                                                           |
| Ethylene oxide                                    | 75-21-8    | 2.6E+02                                                                       | 1.3E+02                                                                      | 6.0E+00                        | —                               | —                             | 2.6E+02                                                                      | 1.3E+02                                                                     | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Ethylene thiourea                                 | 96-45-7    | —                                                                             | —                                                                            | 5.5E+01                        | 1.9E+02                         | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 6.6E+00                        | 2.8E+01                         | —                             | —                                                                            | —                                                                           |
| Ethylenediamine                                   | 107-15-3   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 7.4E+03                        | —                               | —                             | —                                                                            | —                                                                           |
| Ethylenimine                                      | 151-56-4   | 1.3E-01                                                                       | 6.8E-02                                                                      | 9.3E-02                        | —                               | —                             | 1.3E-01                                                                      | 6.8E-02                                                                     | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Ethylhexyl acrylate, 2-                           | 103-11-7   | —                                                                             | —                                                                            | 1.3E+02                        | 4.3E+02                         | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Famphur                                           | 52-85-7    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.5E+00                        | 1.1E+01                         | —                             | —                                                                            | —                                                                           |
| Fensulfothion                                     | 115-90-2   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+01                        | 3.6E+02                         | —                             | —                                                                            | —                                                                           |
| Fenthion                                          | 55-38-9    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 5.7E+00                        | 2.5E+01                         | —                             | —                                                                            | —                                                                           |
| Fenuron                                           | 101-42-8   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 5.7E+03                        | 2.5E+04                         | —                             | —                                                                            | —                                                                           |
| Fluoranthene                                      | 206-44-0   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+03                        | 1.1E+04                         | 2.9E+04                       | —                                                                            | —                                                                           |
| Fluorene                                          | 86-73-7    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+03                        | 1.1E+04                         | 2.2E+04                       | —                                                                            | —                                                                           |
| Fluorine (soluble fluoride)                       | 7782-41-4  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.0E+06                                                                       | 1.0E+06                                                                      | 4.9E+03                        | 2.1E+05                         | —                             | —                                                                            | —                                                                           |
| Fluorochloridone                                  | 61213-25-0 | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 6.1E+02                        | 2.7E+03                         | —                             | —                                                                            | —                                                                           |
| Fonofos                                           | 944-22-9   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+02                        | 7.1E+02                         | —                             | —                                                                            | —                                                                           |
| Formaldehyde                                      | 50-00-0    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 9.9E+02                                                                       | 5.1E+02                                                                      | 1.6E+04                        | —                               | —                             | 9.9E+02                                                                      | 5.1E+02                                                                     |
| Formic acid                                       | 64-18-6    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 2.1E+02                                                                       | 1.1E+02                                                                      | 7.4E+04                        | —                               | —                             | 2.1E+02                                                                      | 1.1E+02                                                                     |
| Furan                                             | 110-00-9   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+01                        | —                               | —                             | —                                                                            | —                                                                           |
| Furfural                                          | 98-01-1    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.5E+02                        | —                               | —                             | —                                                                            | —                                                                           |
| Glycidylaldehyde                                  | 765-34-4   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.5E+02                                                                       | 7.7E+01                                                                      | 3.3E+01                        | —                               | —                             | 1.5E+02                                                                      | 7.7E+01                                                                     |
| Glyphosate                                        | 1071-83-6  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+04                        | 3.6E+05                         | —                             | —                                                                            | —                                                                           |
| Heptachlor                                        | 76-44-8    | 9.1E+00                                                                       | 4.7E+00                                                                      | 1.3E+00                        | 4.6E+00                         | 1.5E-01                       | 9.1E+00                                                                      | 4.7E+00                                                                     | —                                                                             | —                                                                            | 4.1E+01                        | 1.8E+02                         | 9.0E+00                       | —                                                                            | —                                                                           |
| Heptachlor epoxide                                | 1024-57-3  | 2.4E+01                                                                       | 1.2E+01                                                                      | 6.7E-01                        | 2.3E+00                         | 4.5E-01                       | 2.4E+01                                                                      | 1.2E+01                                                                     | —                                                                             | —                                                                            | 1.1E+00                        | 4.6E+00                         | 1.4E+00                       | —                                                                            | —                                                                           |
| Heptane, n-                                       | 142-82-5   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.4E+05                                                                       | 7.1E+04                                                                      | 4.9E+03                        | —                               | —                             | 1.4E+05                                                                      | 7.1E+04                                                                     |
| Heptanoic acid, n-                                | 111-14-8   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.2E+02                                                                       | 6.3E+01                                                                      | 4.1E+04                        | 1.8E+05                         | —                             | 1.2E+02                                                                      | 6.3E+01                                                                     |
| Hexachlorobenzene                                 | 118-74-1   | 1.9E+01                                                                       | 9.8E+00                                                                      | 3.8E+00                        | 1.3E+01                         | 1.9E+00                       | 1.9E+01                                                                      | 9.8E+00                                                                     | —                                                                             | —                                                                            | 6.6E+01                        | 2.8E+02                         | 6.4E+01                       | —                                                                            | —                                                                           |
| Hexachlorobutadiene                               | 87-68-3    | 2.9E+01                                                                       | 1.5E+01                                                                      | 7.8E+01                        | 2.7E+02                         | —                             | 2.9E+01                                                                      | 1.5E+01                                                                     | —                                                                             | —                                                                            | 8.2E+01                        | 3.6E+02                         | —                             | —                                                                            | —                                                                           |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | 1.4E+01                                                                       | 7.2E+00                                                                      | 9.6E-01                        | 8.2E+00                         | 3.7E-01                       | 1.4E+01                                                                      | 7.2E+00                                                                     | —                                                                             | —                                                                            | 6.6E+02                        | 7.1E+03                         | 5.0E+02                       | —                                                                            | —                                                                           |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | 7.2E+01                                                                       | 3.7E+01                                                                      | 3.4E+00                        | 2.9E+01                         | 1.4E+00                       | 7.2E+01                                                                      | 3.7E+01                                                                     | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | 1.0E+02                                                                       | 5.2E+01                                                                      | 3.4E+00                        | 2.9E+01                         | —                             | 1.0E+02                                                                      | 5.2E+01                                                                     | —                                                                             | —                                                                            | 2.5E+01                        | 2.7E+02                         | —                             | —                                                                            | —                                                                           |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | —                                                                             | —                                                                            | 4.7E+00                        | 4.0E+01                         | 1.5E+00                       | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.5E+01                        | 2.7E+02                         | 1.6E+01                       | —                                                                            | —                                                                           |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | 8.9E+01                                                                       | 4.6E+01                                                                      | 3.4E+00                        | 2.9E+01                         | 2.4E+00                       | 8.9E+01                                                                      | 4.6E+01                                                                     | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Hexachlorocyclopentadiene                         | 77-47-4    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.4E+01                                                                       | 7.3E+00                                                                      | 4.9E+02                        | 2.1E+03                         | —                             | 1.4E+01                                                                      | 7.3E+00                                                                     |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                            | CAS        | Carcinogenic                                                                   |                                                                               |                                |                                 |                                   |                                                                                            |                                                                                           | Noncarcinogenic                                                                |                                                                               |                                |                                 |                                   |                                                                                            |                                                                                           |
|------------------------------------------------|------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                |            | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | VegSoil <sub>Inh</sub><br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5<br>acre source<br>area (mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | VegSoil <sub>Inh</sub><br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Hexachloroethane                               | 67-72-1    | —                                                                              | —                                                                             | 1.5E+02                        | 5.2E+02                         | —                                 | —                                                                                          | —                                                                                         | 4.9E+03                                                                        | 2.5E+03                                                                       | 5.7E+01                        | 2.5E+02                         | —                                 | 5.0E+03                                                                                    | 2.5E+03                                                                                   |
| Hexachlorophene                                | 70-30-4    | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | 2.6E+03                           | —                                                                                          | —                                                                                         |
| Hexachloropropylene                            | 1888-71-7  | —                                                                              | —                                                                             | 1.5E+02                        | 5.2E+02                         | —                                 | —                                                                                          | —                                                                                         | 5.1E+03                                                                        | 2.6E+03                                                                       | 5.7E+01                        | 2.5E+02                         | —                                 | 5.1E+03                                                                                    | 2.6E+03                                                                                   |
| Hexanal, 2-ethyl-                              | 123-05-7   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.2E+04                        | 5.3E+04                         | —                                 | —                                                                                          | —                                                                                         |
| Hexane, n-                                     | 110-54-3   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 1.0E+04                                                                        | 5.3E+03                                                                       | 4.9E+03                        | —                               | —                                 | 1.0E+04                                                                                    | 5.3E+03                                                                                   |
| Hexanediamine, 1,6-                            | 124-09-4   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+02                        | 1.8E+03                         | —                                 | —                                                                                          | —                                                                                         |
| Hexanedinitrile                                | 111-69-3   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 9.8E+02                                                                        | 5.1E+02                                                                       | 1.1E+02                        | 5.0E+02                         | —                                 | 9.8E+02                                                                                    | 5.1E+02                                                                                   |
| Hexanediol, 1,6-                               | 629-11-8   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 1.0E+06                                                                        | 1.0E+06                                                                       | 4.1E+05                        | 1.0E+06                         | —                                 | 1.0E+06                                                                                    | 1.0E+06                                                                                   |
| Hexanoic acid                                  | 142-62-1   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 1.4E+02                                                                        | 7.0E+01                                                                       | 5.2E+03                        | 2.3E+04                         | —                                 | 1.4E+02                                                                                    | 7.0E+01                                                                                   |
| Hexanone, 2-                                   | 591-78-6   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 8.3E+02                                                                        | 4.2E+02                                                                       | 4.1E+03                        | —                               | —                                 | 8.3E+02                                                                                    | 4.2E+02                                                                                   |
| Hexazinone                                     | 51235-04-2 | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.7E+03                        | 1.2E+04                         | —                                 | —                                                                                          | —                                                                                         |
| Hexene, 1-                                     | 592-41-6   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 1.7E+03                                                                        | 8.7E+02                                                                       | 2.7E+04                        | —                               | —                                 | 1.7E+03                                                                                    | 8.7E+02                                                                                   |
| Hexene, cis-2-                                 | 7688-21-3  | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 1.7E+03                                                                        | 8.7E+02                                                                       | 2.7E+04                        | —                               | —                                 | 1.7E+03                                                                                    | 8.7E+02                                                                                   |
| Hexylene glycol (2-methyl-2,4-pentanediol)     | 107-41-5   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+04                        | 1.1E+05                         | —                                 | —                                                                                          | —                                                                                         |
| Hydrazine                                      | 302-01-2   | 4.6E-01                                                                        | 2.4E-01                                                                       | 2.0E+00                        | —                               | —                                 | 4.6E-01                                                                                    | 2.4E-01                                                                                   | 2.9E+00                                                                        | 1.5E+00                                                                       | —                              | —                               | —                                 | 2.9E+00                                                                                    | 1.5E+00                                                                                   |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid) | 1191-25-9  | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 1.6E+02                                                                        | 8.3E+01                                                                       | 5.2E+03                        | 2.3E+04                         | —                                 | 1.6E+02                                                                                    | 8.3E+01                                                                                   |
| Hydrogen chloride (hydrochloric acid)*         | 7647-01-0  | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         |
| Hydroquinone                                   | 123-31-9   | —                                                                              | —                                                                             | 1.0E+02                        | 3.5E+02                         | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+03                        | 1.4E+04                         | —                                 | —                                                                                          | —                                                                                         |
| Indene                                         | 95-13-6    | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 1.1E+02                                                                        | 5.8E+01                                                                       | 1.6E+03                        | —                               | —                                 | 1.1E+02                                                                                    | 5.8E+01                                                                                   |
| Indeno-1,2,3-cd-pyrene                         | 193-39-5   | 3.4E+04                                                                        | 1.7E+04                                                                       | 6.1E+01                        | 1.6E+02                         | 8.3E+02                           | 3.7E+04                                                                                    | 1.9E+04                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         |
| Iron*                                          | 7439-89-6  | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         |
| Isoamyl alcohol                                | 123-51-3   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+02                        | —                               | —                                 | —                                                                                          | —                                                                                         |
| Isobutyl alcohol                               | 78-83-1    | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+04                        | —                               | —                                 | —                                                                                          | —                                                                                         |
| Isobutylene (2-methyl-1-propene)               | 115-11-7   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 1.0E+06                                                                        | 8.7E+05                                                                       | 3.0E+02                        | —                               | —                                 | 1.0E+06                                                                                    | 8.7E+05                                                                                   |
| Isobutyric acid (2-methylpropanoic acid)       | 79-31-2    | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+04                        | 1.8E+05                         | —                                 | —                                                                                          | —                                                                                         |
| Isodecanol                                     | 25339-17-7 | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.3E+02                        | 5.7E+02                         | 2.1E+02                           | —                                                                                          | —                                                                                         |
| Isodrin                                        | 465-73-6   | 1.7E+00                                                                        | 8.9E-01                                                                       | 3.6E-02                        | 1.2E-01                         | —                                 | 1.7E+00                                                                                    | 9.0E-01                                                                                   | —                                                                              | —                                                                             | 2.5E-01                        | 1.1E+00                         | —                                 | —                                                                                          | —                                                                                         |
| Isopentane                                     | 78-78-4    | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 3.7E+05                                                                        | 1.9E+05                                                                       | 4.9E+03                        | —                               | —                                 | 3.7E+05                                                                                    | 1.9E+05                                                                                   |
| Isophorone                                     | 78-59-1    | —                                                                              | —                                                                             | 6.4E+03                        | 2.2E+04                         | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+04                        | 7.1E+04                         | —                                 | —                                                                                          | —                                                                                         |
| Isopropyl acetate                              | 108-21-4   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 5.7E+03                        | —                               | —                                 | —                                                                                          | —                                                                                         |
| Isopropyl alcohol                              | 67-63-0    | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 9.7E+03                                                                        | 5.0E+03                                                                       | 1.6E+05                        | —                               | —                                 | 9.7E+03                                                                                    | 5.0E+03                                                                                   |
| Isosafrole                                     | 120-58-1   | 9.1E+01                                                                        | 4.7E+01                                                                       | 2.8E+01                        | 9.4E+01                         | —                                 | 9.1E+01                                                                                    | 4.7E+01                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         |
| Kelthane (dicofol)                             | 115-32-2   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.9E+02                        | 2.1E+03                         | 8.2E+02                           | —                                                                                          | —                                                                                         |
| Kepone (chlordecone)                           | 143-50-0   | 4.8E+01                                                                        | 2.5E+01                                                                       | 6.1E-01                        | 2.1E+00                         | 1.5E+00                           | 4.9E+01                                                                                    | 2.5E+01                                                                                   | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | 1.2E+02                           | —                                                                                          | —                                                                                         |
| Lead (inorganic)                               | 7439-92-1  | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         |
| Leptophos                                      | 21609-90-5 | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 3.3E+01                                                                        | 1.7E+01                                                                       | 4.1E-01                        | 1.8E+00                         | 3.1E-01                           | 3.3E+01                                                                                    | 1.7E+01                                                                                   |
| Limonene, d-*                                  | 5989-27-5  | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         |
| Lithium                                        | 7439-93-2  | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 5.7E+02                        | 2.5E+04                         | 2.1E+03                           | —                                                                                          | —                                                                                         |
| Magnesium*                                     | 7439-95-4  | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         |
| Malathion                                      | 121-75-5   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 2.0E+02                                                                        | 1.0E+02                                                                       | 1.6E+03                        | 7.1E+03                         | —                                 | 2.0E+02                                                                                    | 1.0E+02                                                                                   |
| Maleic anhydride                               | 108-31-6   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | —                                 | —                                                                                          | —                                                                                         |
| Maleic hydrazide                               | 123-33-1   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+04                        | 1.8E+05                         | —                                 | —                                                                                          | —                                                                                         |
| Malononitrile                                  | 109-77-3   | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+00                        | 3.6E+01                         | —                                 | —                                                                                          | —                                                                                         |
| Mancozeb                                       | 8018-01-7  | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+03                        | 1.1E+04                         | —                                 | —                                                                                          | —                                                                                         |
| Manganese                                      | 7439-96-5  | —                                                                              | —                                                                             | —                              | —                               | —                                 | —                                                                                          | —                                                                                         | 8.1E+05                                                                        | 4.2E+05                                                                       | 1.1E+04                        | 3.0E+04                         | 7.6E+03                           | —                                                                                          | —                                                                                         |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | Carcinogenic                                                                   |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           | Noncarcinogenic                                                                |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           |
|----------------------------------------------------|------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                    |            | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+01                        | 1.8E+02                         | —                             | —                                                                                          | —                                                                                         |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+01                        | 3.6E+02                         | —                             | —                                                                                          | —                                                                                         |
| Mercury (pH = 4.9) <sup>2</sup>                    | 7439-97-6  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 4.6E+00                                                                        | 2.4E+00                                                                       | 2.5E+01                        | 7.5E+01                         | 3.6E+02                       | 4.6E+00                                                                                    | 2.4E+00                                                                                   |
| Mercury (pH=6.8) <sup>2</sup>                      | 7439-97-6  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.6E+01                                                                        | 8.0E+00                                                                       | 2.5E+01                        | 7.5E+01                         | 3.6E+02                       | 1.6E+01                                                                                    | 8.0E+00                                                                                   |
| Merphos                                            | 150-50-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+00                        | 1.1E+01                         | —                             | —                                                                                          | —                                                                                         |
| Methacrylic acid (2-methyl-2-propenoic acid)       | 79-41-4    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+02                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Methacrylonitrile                                  | 126-98-7   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 5.8E+02                                                                        | 3.0E+02                                                                       | 4.1E+03                        | —                               | —                             | 5.8E+02                                                                                    | 3.0E+02                                                                                   |
| Methanol                                           | 67-56-1    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.3E+05                                                                        | 1.7E+05                                                                       | 1.6E+05                        | —                               | —                             | 3.3E+05                                                                                    | 1.7E+05                                                                                   |
| Methapyrilene                                      | 91-80-5    | —                                                                              | —                                                                             | 1.3E+00                        | 4.4E+00                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Methomyl                                           | 16752-77-5 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.0E+03                        | 8.9E+03                         | —                             | —                                                                                          | —                                                                                         |
| Methoxychlor                                       | 72-43-5    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+02                        | 1.8E+03                         | 1.5E+03                       | —                                                                                          | —                                                                                         |
| Methoxyethanol, 2-                                 | 109-86-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.1E+02                                                                        | 1.6E+02                                                                       | 2.2E+03                        | —                               | —                             | 3.1E+02                                                                                    | 1.6E+02                                                                                   |
| Methyl acetate (acetic acid, methyl ester)         | 79-20-9    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+04                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Methyl acrylate                                    | 96-33-3    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.1E+02                                                                        | 1.6E+02                                                                       | 1.6E+02                        | —                               | —                             | 3.1E+02                                                                                    | 1.6E+02                                                                                   |
| Methyl amyl ketone (2-heptanone)                   | 110-43-0   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.1E+05                                                                        | 5.7E+04                                                                       | 4.1E+03                        | —                               | —                             | 1.1E+05                                                                                    | 5.7E+04                                                                                   |
| Methyl chrysene, 1-                                | 3351-28-8  | 1.0E+06                                                                        | 1.0E+06                                                                       | 8.3E+02                        | 2.2E+03                         | 1.3E+04                       | 1.0E+06                                                                                    | 1.0E+06                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Methyl chrysene, 2-                                | 3351-32-4  | 1.0E+06                                                                        | 1.0E+06                                                                       | 8.3E+02                        | 2.2E+03                         | 1.3E+04                       | 1.0E+06                                                                                    | 1.0E+06                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Methyl chrysene, 6-                                | 1705-85-7  | 2.1E+05                                                                        | 1.1E+05                                                                       | 8.3E+01                        | 2.2E+02                         | 1.0E+03                       | 2.3E+05                                                                                    | 1.2E+05                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Methyl cyclohexane                                 | 108-87-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 4.6E+04                                                                        | 2.4E+04                                                                       | 4.1E+05                        | —                               | —                             | 4.6E+04                                                                                    | 2.4E+04                                                                                   |
| Methyl ethyl ketone (2-butanone)                   | 78-93-3    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.0E+05                                                                        | 1.0E+05                                                                       | 4.9E+04                        | —                               | —                             | 2.0E+05                                                                                    | 1.0E+05                                                                                   |
| Methyl iodide (iodomethane)                        | 74-88-4    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.1E+02                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Methyl isobutyl ketone (4-methyl-2-pentanone)      | 108-10-1   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 5.8E+04                                                                        | 3.0E+04                                                                       | 6.6E+03                        | —                               | —                             | 5.8E+04                                                                                    | 3.0E+04                                                                                   |
| Methyl mercury                                     | 22967-92-6 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+00                        | 3.6E+02                         | —                             | —                                                                                          | —                                                                                         |
| Methyl methacrylate                                | 80-62-6    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.1E+04                                                                        | 5.5E+03                                                                       | 1.1E+05                        | —                               | —                             | 1.1E+04                                                                                    | 5.5E+03                                                                                   |
| Methyl methanesulfonate                            | 66-27-3    | 1.1E+02                                                                        | 5.7E+01                                                                       | 6.1E+01                        | 2.1E+02                         | —                             | 1.1E+02                                                                                    | 5.7E+01                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Methyl parathion                                   | 298-00-0   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.0E+01                        | 8.9E+01                         | —                             | —                                                                                          | —                                                                                         |
| Methyl-1-butene, 2-                                | 563-46-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.8E+05                                                                        | 1.4E+05                                                                       | 4.9E+03                        | —                               | —                             | 2.8E+05                                                                                    | 1.4E+05                                                                                   |
| Methyl-1-propanal, 2- (isobutyraldehyde)           | 78-84-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Methyl-2-butene, 2-                                | 513-35-9   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.8E+05                                                                        | 1.4E+05                                                                       | 4.9E+03                        | —                               | —                             | 2.8E+05                                                                                    | 1.4E+05                                                                                   |
| Methyl-2-pentenal, 2-                              | 623-36-9   | —                                                                              | —                                                                             | 3.2E+00                        | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Methylcholanthrene, 3-                             | 56-49-5    | 1.5E+03                                                                        | 7.8E+02                                                                       | 2.8E-01                        | 7.3E-01                         | 5.0E+00                       | 1.8E+03                                                                                    | 9.0E+02                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Methylene bromide (dibromomethane)                 | 74-95-3    | —                                                                              | —                                                                             | 8.1E+02                        | —                               | —                             | —                                                                                          | —                                                                                         | 8.2E+01                                                                        | 4.2E+01                                                                       | 4.9E+03                        | —                               | —                             | 8.2E+01                                                                                    | 4.2E+01                                                                                   |
| Methylene chloride (dichloromethane)               | 75-09-2    | 1.3E+04                                                                        | 6.6E+03                                                                       | 6.2E+04                        | —                               | —                             | 1.3E+04                                                                                    | 6.6E+03                                                                                   | 2.0E+04                                                                        | 1.0E+04                                                                       | 1.7E+03                        | —                               | —                             | 2.0E+04                                                                                    | 1.0E+04                                                                                   |
| Methylene-bis (2-chloroaniline) 4,4'-              | 101-14-4   | 2.7E+03                                                                        | 1.4E+03                                                                       | 6.1E+01                        | 2.1E+02                         | —                             | 2.7E+03                                                                                    | 1.4E+03                                                                                   | —                                                                              | —                                                                             | 1.6E+02                        | 7.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Methylmercury hydroxide                            | 1184-57-2  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+00                        | 3.6E+01                         | —                             | —                                                                                          | —                                                                                         |
| Methylnaphthalene, 1-                              | 90-12-0    | —                                                                              | —                                                                             | 2.1E+02                        | 5.5E+02                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 5.7E+03                        | 1.9E+04                         | —                             | —                                                                                          | —                                                                                         |
| Methylnaphthalene, 2-                              | 91-57-6    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+02                        | 1.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Methylpyrrolidone, N-                              | 872-50-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+03                        | 7.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Methylstyrene, alpha-                              | 98-83-9    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 4.8E+02                                                                        | 2.5E+02                                                                       | 6.8E+02                        | —                               | —                             | 4.8E+02                                                                                    | 2.5E+02                                                                                   |
| Methyltetrahydrofuran, 2-                          | 96-47-9    | 1.9E+02                                                                        | 9.7E+01                                                                       | 8.0E+02                        | —                               | —                             | 1.9E+02                                                                                    | 9.7E+01                                                                                   | —                                                                              | —                                                                             | 1.6E+04                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Methyltetrahydropyran, 2-                          | 10141-72-7 | 2.2E+02                                                                        | 1.1E+02                                                                       | 8.0E+02                        | —                               | —                             | 2.2E+02                                                                                    | 1.1E+02                                                                                   | —                                                                              | —                                                                             | 1.6E+04                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Metolachlor                                        | 51218-45-2 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.2E+04                        | 5.3E+04                         | —                             | —                                                                                          | —                                                                                         |
| Metribuzin                                         | 21087-64-9 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.0E+03                        | 8.9E+03                         | —                             | —                                                                                          | —                                                                                         |
| Mirex                                              | 2385-85-5  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+01                        | 7.1E+01                         | —                             | —                                                                                          | —                                                                                         |
| Molinate                                           | 2212-67-1  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+02                        | 7.1E+02                         | —                             | —                                                                                          | —                                                                                         |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern            | CAS        | Carcinogenic                                                                  |                                                                              |                                               |                                                |                                              |                                                                              |                                                                             | Noncarcinogenic                                                               |                                                                              |                                               |                                                |                                              |                                                                              |                                                                             |
|--------------------------------|------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                |            | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil<sub>Ing</sub></sub><br>(mg/kg) | Soil <sub>Soil<sub>Derm</sub></sub><br>(mg/kg) | Veg <sub>Soil<sub>Ing</sub></sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-Vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil<sub>Ing</sub></sub><br>(mg/kg) | Soil <sub>Soil<sub>Derm</sub></sub><br>(mg/kg) | Veg <sub>Soil<sub>Ing</sub></sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>30 acre<br>source area<br>(mg/kg) |
| Molybdenum                     | 7439-98-7  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+02                                       | 6.8E+03                                        | 2.6E+02                                      | —                                                                            | —                                                                           |
| Monocrotophos                  | 2157-98-4  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.9E+01                                       | 2.1E+02                                        | —                                            | —                                                                            | —                                                                           |
| Morpholine                     | 110-91-8   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.0E+06                                       | —                                              | —                                            | —                                                                            | —                                                                           |
| Morpholine, N-butyl-           | 1005-67-0  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.9E+02                                       | 8.2E+02                                        | —                                            | —                                                                            | —                                                                           |
| MTBE (methyl tert-butyl ether) | 1634-04-4  | 1.4E+03                                                                       | 7.1E+02                                                                      | 3.4E+03                                       | —                                              | —                                            | 1.4E+03                                                                      | 7.1E+02                                                                     | 4.6E+04                                                                       | 2.4E+04                                                                      | 8.2E+02                                       | —                                              | —                                            | 4.6E+04                                                                      | 2.4E+04                                                                     |
| Naled                          | 300-76-5   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+02                                       | 7.1E+02                                        | —                                            | —                                                                            | —                                                                           |
| Naphthalene                    | 91-20-3    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 2.7E+02                                                                       | 1.4E+02                                                                      | 1.6E+03                                       | 5.5E+03                                        | —                                            | 2.7E+02                                                                      | 1.4E+02                                                                     |
| Naphthoquinone, 1,4-           | 130-15-4   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 5.7E+02                                       | 2.5E+03                                        | —                                            | —                                                                            | —                                                                           |
| Naphthylamine, 1-              | 134-32-7   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+03                                       | 7.1E+03                                        | —                                            | —                                                                            | —                                                                           |
| Naphthylamine, 2-              | 91-59-8    | —                                                                             | —                                                                            | 3.4E+00                                       | 1.2E+01                                        | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Napropamide                    | 15299-99-7 | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+03                                       | 3.6E+04                                        | —                                            | —                                                                            | —                                                                           |
| Neopentyl glycol               | 126-30-7   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.5E+04                                       | 1.1E+05                                        | —                                            | —                                                                            | —                                                                           |
| Nickel and compounds           | 7440-02-0  | 1.3E+05                                                                       | 6.8E+04                                                                      | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 2.2E+05                                                                       | 1.1E+05                                                                      | 1.6E+03                                       | 2.8E+03                                        | 4.6E+03                                      | —                                                                            | —                                                                           |
| Nitrate-N                      | 14797-55-8 | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.3E+05                                       | 1.0E+06                                        | —                                            | —                                                                            | —                                                                           |
| Nitrite-N                      | 14797-65-0 | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+03                                       | 3.6E+05                                        | —                                            | —                                                                            | —                                                                           |
| Nitroaniline, 2-               | 88-74-4    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | 4.8E+01                                                                       | 2.4E+01                                                                      | 2.5E+01                                       | 1.1E+02                                        | —                                            | 4.8E+01                                                                      | 2.4E+01                                                                     |
| Nitroaniline, 3-               | 99-09-2    | —                                                                             | —                                                                            | 1.6E+02                                       | 5.5E+02                                        | —                                            | —                                                                            | —                                                                           | 6.0E+01                                                                       | 3.1E+01                                                                      | 2.5E+01                                       | 1.1E+02                                        | —                                            | 6.0E+01                                                                      | 3.1E+01                                                                     |
| Nitroaniline, 4-               | 100-01-6   | —                                                                             | —                                                                            | 3.0E+02                                       | 1.0E+03                                        | —                                            | —                                                                            | —                                                                           | 1.2E+03                                                                       | 6.2E+02                                                                      | 3.3E+02                                       | 1.4E+03                                        | —                                            | 1.2E+03                                                                      | 6.2E+02                                                                     |
| Nitrobenzene                   | 98-95-3    | 6.6E+01                                                                       | 3.4E+01                                                                      | —                                             | —                                              | —                                            | 6.6E+01                                                                      | 3.4E+01                                                                     | 1.1E+02                                                                       | 5.8E+01                                                                      | 1.6E+02                                       | 7.1E+02                                        | —                                            | 1.1E+02                                                                      | 5.8E+01                                                                     |
| Nitroglycerin                  | 55-63-0    | —                                                                             | —                                                                            | 3.6E+02                                       | 1.2E+03                                        | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+00                                       | 3.6E+01                                        | —                                            | —                                                                            | —                                                                           |
| Nitrophenol, 2-                | 88-75-5    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+02                                       | 7.1E+02                                        | —                                            | —                                                                            | —                                                                           |
| Nitrophenol, 3-                | 554-84-7   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+02                                       | 7.1E+02                                        | —                                            | —                                                                            | —                                                                           |
| Nitrophenol, 4-                | 100-02-7   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+02                                       | 7.1E+02                                        | —                                            | —                                                                            | —                                                                           |
| Nitropropane, 2-               | 79-46-9    | 6.2E-01                                                                       | 3.2E-01                                                                      | —                                             | —                                              | —                                            | 6.2E-01                                                                      | 3.2E-01                                                                     | 3.1E+02                                                                       | 1.6E+02                                                                      | 1.1E+01                                       | —                                              | —                                            | 3.1E+02                                                                      | 1.6E+02                                                                     |
| Nitroquinoline-N-oxide, 4-     | 56-57-5    | 1.9E+00                                                                       | 9.7E-01                                                                      | 6.5E-01                                       | 2.2E+00                                        | —                                            | 1.9E+00                                                                      | 9.7E-01                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitrosodiethanolamine          | 1116-54-7  | —                                                                             | —                                                                            | 2.2E+00                                       | 7.4E+00                                        | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitrosodiethylamine, n-        | 55-18-5    | 6.6E-02                                                                       | 3.4E-02                                                                      | 4.0E-02                                       | —                                              | —                                            | 6.6E-02                                                                      | 3.4E-02                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitrosodimethylamine, n-       | 62-75-9    | 2.0E-01                                                                       | 1.0E-01                                                                      | 1.2E-01                                       | —                                              | —                                            | 2.0E-01                                                                      | 1.0E-01                                                                     | 4.7E+00                                                                       | 2.4E+00                                                                      | 6.6E-01                                       | —                                              | —                                            | 4.7E+00                                                                      | 2.4E+00                                                                     |
| Nitrosodi-n-butylamine, n-     | 924-16-3   | 1.0E+00                                                                       | 5.3E-01                                                                      | 1.1E+00                                       | 3.8E+00                                        | —                                            | 1.0E+00                                                                      | 5.3E-01                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitrosodi-n-propylamine, n-    | 621-64-7   | —                                                                             | —                                                                            | 8.7E-01                                       | 7.4E-01                                        | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitrosodiphenylamine           | 86-30-6    | —                                                                             | —                                                                            | 1.2E+03                                       | 1.1E+03                                        | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitroso-methyl-ethyl-amine, n- | 10595-95-6 | —                                                                             | —                                                                            | 2.8E-01                                       | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitrosomorpholine, N-          | 59-89-2    | 1.7E+00                                                                       | 8.8E-01                                                                      | 9.1E-01                                       | 3.1E+00                                        | —                                            | 1.7E+00                                                                      | 8.8E-01                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitroso-n-ethylurea, n-        | 759-73-9   | —                                                                             | —                                                                            | 4.3E-02                                       | 1.5E-01                                        | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitrosopiperidine, N-          | 100-75-4   | 1.3E+00                                                                       | 6.9E-01                                                                      | 6.5E-01                                       | 2.2E+00                                        | —                                            | 1.3E+00                                                                      | 6.9E-01                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitrosopyrrolidine, n-         | 930-55-2   | 5.8E+00                                                                       | 3.0E+00                                                                      | 2.9E+00                                       | 9.9E+00                                        | —                                            | 5.8E+00                                                                      | 3.0E+00                                                                     | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           |
| Nitrotoluene, m-               | 99-08-1    | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+02                                       | 3.6E+03                                        | —                                            | —                                                                            | —                                                                           |
| Nitrotoluene, o-               | 88-72-2    | —                                                                             | —                                                                            | 2.8E+01                                       | 9.4E+01                                        | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 7.4E+01                                       | 3.2E+02                                        | —                                            | —                                                                            | —                                                                           |
| Nitrotoluene, p-               | 99-99-0    | —                                                                             | —                                                                            | 3.8E+02                                       | 1.3E+03                                        | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+02                                       | 1.4E+03                                        | —                                            | —                                                                            | —                                                                           |
| Nonachlor, cis-                | 5103-73-1  | 1.2E+03                                                                       | 6.4E+02                                                                      | 1.7E+01                                       | 5.9E+01                                        | 9.7E+00                                      | 1.2E+03                                                                      | 6.4E+02                                                                     | 3.7E+03                                                                       | 1.9E+03                                                                      | 4.1E+01                                       | 1.8E+02                                        | 4.6E+01                                      | 3.7E+03                                                                      | 1.9E+03                                                                     |
| Nonachlor, trans-              | 39765-80-5 | 1.2E+03                                                                       | 6.4E+02                                                                      | 1.7E+01                                       | 5.9E+01                                        | 9.7E+00                                      | 1.2E+03                                                                      | 6.4E+02                                                                     | 3.7E+03                                                                       | 1.9E+03                                                                      | 4.1E+01                                       | 1.8E+02                                        | 4.6E+01                                      | 3.7E+03                                                                      | 1.9E+03                                                                     |
| Nonanal                        | 124-19-6   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+04                                       | 7.1E+04                                        | —                                            | —                                                                            | —                                                                           |
| Nonene, 1-n                    | 124-11-8   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+03                                       | —                                              | —                                            | —                                                                            | —                                                                           |
| Nonylphenol, 4-n-              | 104-40-5   | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+03                                       | 3.6E+04                                        | 2.8E+05                                      | —                                                                            | —                                                                           |
| Nonylphenol ethoxylate         | 9016-45-9  | —                                                                             | —                                                                            | —                                             | —                                              | —                                            | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+03                                       | 3.6E+04                                        | 2.9E+05                                      | —                                                                            | —                                                                           |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                              | CAS        | Carcinogenic                                                         |                                                                     |                             |                              |                            |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                            |                                                                     |                                                                    |
|----------------------------------------------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|----------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|----------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                                                  |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Inh</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Veg <sub>Inh</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Inh</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Veg <sub>Inh</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) |
| Octamethylpyrophosphoramide                                                      | 152-16-9   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.6E+02                     | 7.1E+02                      | —                          | —                                                                   | —                                                                  |
| Octanone                                                                         | 106-68-3   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 9.0E+05                                                              | 4.6E+05                                                             | 4.9E+03                     | —                            | —                          | 9.0E+05                                                             | 4.6E+05                                                            |
| Oxamyl                                                                           | 23135-22-0 | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+03                     | 8.9E+03                      | —                          | —                                                                   | —                                                                  |
| Oxychlordane                                                                     | 27304-13-8 | 1.2E+03                                                              | 6.4E+02                                                             | 1.7E+01                     | 5.9E+01                      | 9.7E+00                    | 1.2E+03                                                             | 6.4E+02                                                            | 3.7E+03                                                              | 1.9E+03                                                             | 4.1E+01                     | 1.8E+02                      | 4.6E+01                    | 3.7E+03                                                             | 1.9E+03                                                            |
| Paraquat                                                                         | 1910-42-5  | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.7E+02                     | 1.6E+03                      | —                          | —                                                                   | —                                                                  |
| Parathion (ethyl parathion)                                                      | 56-38-2    | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.9E+02                     | 2.1E+03                      | —                          | —                                                                   | —                                                                  |
| Pebulate                                                                         | 1114-71-2  | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+03                     | 1.8E+04                      | —                          | —                                                                   | —                                                                  |
| Pendimethalin                                                                    | 40487-42-1 | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.3E+03                     | 1.4E+04                      | 5.1E+04                    | —                                                                   | —                                                                  |
| Pentachlorobenzene                                                               | 608-93-5   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 6.6E+01                     | 2.8E+02                      | —                          | —                                                                   | —                                                                  |
| Pentachloroethane                                                                | 76-01-7    | 9.4E+01                                                              | 4.8E+01                                                             | 6.7E+01                     | —                            | —                          | 9.4E+01                                                             | 4.8E+01                                                            | —                                                                    | —                                                                   | 2.5E+03                     | —                            | —                          | —                                                                   | —                                                                  |
| Pentachloronitrobenzene                                                          | 82-68-8    | —                                                                    | —                                                                   | 2.3E+01                     | 8.0E+01                      | 2.3E+01                    | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.5E+02                     | 1.1E+03                      | 4.8E+02                    | —                                                                   | —                                                                  |
| Pentachlorophenol                                                                | 87-86-5    | —                                                                    | —                                                                   | 1.5E+01                     | 2.1E+01                      | 7.9E-01                    | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+02                     | 7.1E+02                      | 4.2E+01                    | —                                                                   | —                                                                  |
| Pentadiene, 1,3-cis-                                                             | 1574-41-0  | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 2.8E+05                                                              | 1.4E+05                                                             | 4.9E+03                     | —                            | —                          | 2.8E+05                                                             | 1.4E+05                                                            |
| Pentadiene, 1,3-trans-                                                           | 2004-70-8  | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 2.8E+05                                                              | 1.4E+05                                                             | 4.9E+03                     | —                            | —                          | 2.8E+05                                                             | 1.4E+05                                                            |
| Pentaerythritol tetranitrate (PETN)                                              | 78-11-5    | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.6E+02                     | 7.1E+02                      | —                          | —                                                                   | —                                                                  |
| Pentane                                                                          | 109-66-0   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 3.7E+05                                                              | 1.9E+05                                                             | 4.9E+03                     | —                            | —                          | 3.7E+05                                                             | 1.9E+05                                                            |
| Pentane, 2-methyl-                                                               | 107-83-5   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 2.8E+05                                                              | 1.4E+05                                                             | 4.9E+03                     | —                            | —                          | 2.8E+05                                                             | 1.4E+05                                                            |
| Pentane, 3-methyl-                                                               | 96-14-0    | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 2.8E+05                                                              | 1.4E+05                                                             | 4.9E+03                     | —                            | —                          | 2.8E+05                                                             | 1.4E+05                                                            |
| Pentenediol, 1,5-                                                                | 111-29-5   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 1.0E+06                                                              | 1.0E+06                                                             | 4.1E+05                     | 1.0E+06                      | —                          | 1.0E+06                                                             | 1.0E+06                                                            |
| Pentanol, 1-                                                                     | 71-41-0    | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.7E+03                     | —                            | —                          | —                                                                   | —                                                                  |
| Pentanol, 4-methyl-2-                                                            | 108-11-2   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.1E+03                     | —                            | —                          | —                                                                   | —                                                                  |
| Pentanone, 2-                                                                    | 107-87-9   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.3E+03                     | —                            | —                          | —                                                                   | —                                                                  |
| Pentene, 2-                                                                      | 109-68-2   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 2.8E+05                                                              | 1.4E+05                                                             | 4.9E+03                     | —                            | —                          | 2.8E+05                                                             | 1.4E+05                                                            |
| Pentyne, 1-                                                                      | 627-19-0   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 2.8E+05                                                              | 1.4E+05                                                             | 4.9E+03                     | —                            | —                          | 2.8E+05                                                             | 1.4E+05                                                            |
| Perchlorate                                                                      | 14797-73-0 | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.7E+01                     | 5.0E+02                      | —                          | —                                                                   | —                                                                  |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 1.5E+02                                                              | 7.9E+01                                                             | 1.9E+00                     | 8.2E+00                      | —                          | 1.5E+02                                                             | 8.0E+01                                                            |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDa]               | 2058-94-8  | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 9.8E-01                     | 4.3E+00                      | —                          | —                                                                   | —                                                                  |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                    | 2706-90-3  | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+01                     | 1.8E+02                      | —                          | —                                                                   | —                                                                  |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                    | 307-24-4   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+01                     | 1.8E+02                      | —                          | —                                                                   | —                                                                  |
| Perfluorododecanoic acid (Dodecanoic acid, tricafluoro-) [PFDoA]                 | 307-55-1   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 6.9E+01                                                              | 3.5E+01                                                             | 9.8E-01                     | 4.3E+00                      | —                          | 6.9E+01                                                             | 3.6E+01                                                            |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                  | 335-67-1   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 2.4E+00                                                              | 1.2E+00                                                             | 9.8E-01                     | 4.3E+00                      | —                          | 2.4E+00                                                             | 1.2E+00                                                            |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                   | 335-76-2   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 8.6E+01                                                              | 4.4E+01                                                             | 1.2E+00                     | 5.3E+00                      | —                          | 8.6E+01                                                             | 4.4E+01                                                            |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafluoro-) [PFDS]   | 335-77-3   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 9.8E-01                     | 4.3E+00                      | —                          | —                                                                   | —                                                                  |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS]    | 355-46-4   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 1.1E+01                                                              | 5.8E+00                                                             | 3.1E-01                     | 1.4E+00                      | —                          | 1.1E+01                                                             | 5.8E+00                                                            |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                       | 375-22-4   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 6.8E+02                                                              | 3.5E+02                                                             | 8.2E+01                     | 3.6E+02                      | —                          | 6.8E+02                                                             | 3.5E+02                                                            |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]        | 375-73-5   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 1.1E+03                                                              | 5.8E+02                                                             | 1.1E+02                     | 5.0E+02                      | —                          | 1.1E+03                                                             | 5.8E+02                                                            |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]                 | 375-85-9   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.9E+00                     | 8.2E+00                      | —                          | —                                                                   | —                                                                  |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]                  | 375-95-1   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | 1.7E+01                                                              | 8.9E+00                                                             | 9.8E-01                     | 4.3E+00                      | —                          | 1.7E+01                                                             | 8.9E+00                                                            |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosfluoro-) [PFTeDA]       | 376-06-7   | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 9.8E-01                     | 4.3E+00                      | 1.4E+00                    | —                                                                   | —                                                                  |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosfluoro-) [PFTrDA]           | 72629-94-8 | —                                                                    | —                                                                   | —                           | —                            | —                          | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 9.8E-01                     | 4.3E+00                      | 2.5E+00                    | —                                                                   | —                                                                  |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                         | CAS        | Carcinogenic                                                                  |                                                                              |                                |                                 |                               |                                                                              |                                                                             | Noncarcinogenic                                                               |                                                                              |                                |                                 |                               |                                                                              |                                                                             |
|-----------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                                                             |            | Alr <sup>1</sup> Soil <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh-v</sub><br>0.5<br>acre source<br>area (mg/kg) | Alr <sup>1</sup> Soil <sub>Inh-v</sub><br>30 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh-vp</sub><br>0.5<br>acre source<br>area (mg/kg) | Alr <sup>1</sup> Soil <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh-v</sub><br>0.5 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh-v</sub><br>30 acre<br>source area<br>(mg/kg) |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA] | 754-91-6   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 6.3E-02                                                                       | 3.2E-02                                                                      | 9.8E-01                        | 4.3E+00                         | —                             | 6.3E-02                                                                      | 3.2E-02                                                                     |
| Perylene                                                                    | 198-55-0   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+03                        | 7.1E+03                         | 4.9E+04                       | —                                                                            | —                                                                           |
| Phenacetin                                                                  | 62-44-2    | 1.1E+04                                                                       | 5.6E+03                                                                      | 2.8E+03                        | 9.4E+03                         | —                             | 1.1E+04                                                                      | 5.6E+03                                                                     | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Phenanthrene                                                                | 85-01-8    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.5E+03                        | 8.2E+03                         | 1.7E+04                       | —                                                                            | —                                                                           |
| Phenanthridine                                                              | 229-87-8   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.5E+02                        | 1.1E+03                         | —                             | —                                                                            | —                                                                           |
| Phenol                                                                      | 108-95-2   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.9E+03                                                                       | 1.0E+03                                                                      | 2.5E+04                        | 1.1E+05                         | —                             | 1.9E+03                                                                      | 1.0E+03                                                                     |
| Phenol, 4-tert-butyl-                                                       | 98-54-4    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 9.8E+03                        | 4.3E+04                         | —                             | —                                                                            | —                                                                           |
| Phenothiazine                                                               | 92-84-2    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 9.0E+01                        | 3.9E+02                         | 4.4E+02                       | —                                                                            | —                                                                           |
| Phenyl mercuric acetate                                                     | 62-38-4    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 6.6E+00                        | 2.8E+01                         | —                             | —                                                                            | —                                                                           |
| Phenylene diamine, m-                                                       | 108-45-2   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.9E+02                        | 2.1E+03                         | —                             | —                                                                            | —                                                                           |
| Phenylene diamine, p-                                                       | 106-50-3   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+04                        | 6.8E+04                         | —                             | —                                                                            | —                                                                           |
| Phorate                                                                     | 298-02-2   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+01                        | 7.1E+01                         | —                             | —                                                                            | —                                                                           |
| Phosalone                                                                   | 2310-17-0  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+02                        | 7.1E+02                         | —                             | —                                                                            | —                                                                           |
| Phosdrin (mevinphos)                                                        | 7786-34-7  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+00                        | 8.9E+00                         | —                             | —                                                                            | —                                                                           |
| Phosmet                                                                     | 732-11-6   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+03                        | 7.1E+03                         | —                             | —                                                                            | —                                                                           |
| Phosphine                                                                   | 7803-51-2  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 4.6E+00                                                                       | 2.4E+00                                                                      | 2.5E+01                        | 2.1E+02                         | —                             | 4.6E+00                                                                      | 2.4E+00                                                                     |
| Phosphorotriethioic acid, S,S,S-tributyl ester                              | 78-48-8    | —                                                                             | —                                                                            | 7.2E+01                        | 2.5E+02                         | 8.1E+02                       | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+01                        | 1.8E+02                         | 9.2E+02                       | —                                                                            | —                                                                           |
| Phosphorus, total*                                                          | 7723-14-0  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Phosphorus, white                                                           | 7723-14-0  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+00                        | 1.4E+01                         | —                             | —                                                                            | —                                                                           |
| Phthalic anhydride                                                          | 85-44-9    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 5.0E+04                                                                       | 2.6E+04                                                                      | 1.6E+05                        | 7.1E+05                         | —                             | 5.0E+04                                                                      | 2.6E+04                                                                     |
| Picloram                                                                    | 1918-02-1  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 5.7E+03                        | 2.5E+04                         | —                             | —                                                                            | —                                                                           |
| Picoline, 2- (2-methylpyridine)                                             | 109-06-8   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 7.4E+02                        | —                               | —                             | —                                                                            | —                                                                           |
| Polybrominated biphenyls (PBBs)                                             | 67774-32-7 | —                                                                             | —                                                                            | 6.8E-01                        | 2.3E+00                         | 9.9E-03                       | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 5.7E-01                        | 2.5E+00                         | 1.7E-02                       | —                                                                            | —                                                                           |
| Polychlorinated biphenyls (PCBs)                                            | 1336-36-3  | 5.4E+01                                                                       | 2.8E+01                                                                      | 3.0E+00                        | 7.4E+00                         | 1.3E+01                       | 5.4E+01                                                                      | 2.8E+01                                                                     | —                                                                             | —                                                                            | 1.6E+00                        | 5.1E+00                         | 1.4E+01                       | —                                                                            | —                                                                           |
| Potassium*                                                                  | 7440-09-7  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           |
| Primene                                                                     | 68955-53-3 | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.9E+02                        | 2.1E+03                         | 3.9E+03                       | —                                                                            | —                                                                           |
| Prometon (pramitol)                                                         | 1610-18-0  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.2E+03                        | 5.3E+03                         | —                             | —                                                                            | —                                                                           |
| Prometryn                                                                   | 7287-19-6  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+03                        | 1.4E+04                         | —                             | —                                                                            | —                                                                           |
| Pronamide                                                                   | 23950-58-5 | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 6.1E+03                        | 2.7E+04                         | —                             | —                                                                            | —                                                                           |
| Propanal (propionaldehyde)                                                  | 123-38-6   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.2E+02                                                                       | 6.3E+01                                                                      | 6.6E+02                        | —                               | —                             | 1.2E+02                                                                      | 6.3E+01                                                                     |
| Propane, 1-bromo-                                                           | 106-94-5   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.9E+03                        | —                               | —                             | —                                                                            | —                                                                           |
| Propanil                                                                    | 709-98-8   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+02                        | 1.8E+03                         | —                             | —                                                                            | —                                                                           |
| Propanoic acid (propionic acid)                                             | 79-09-4    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+04                        | —                               | —                             | —                                                                            | —                                                                           |
| Propanol, 1-                                                                | 71-23-8    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+05                        | —                               | —                             | —                                                                            | —                                                                           |
| Propargite                                                                  | 2312-35-8  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+03                        | 7.1E+03                         | —                             | —                                                                            | —                                                                           |
| Propargyl alcohol                                                           | 107-19-7   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+02                        | —                               | —                             | —                                                                            | —                                                                           |
| Propazine                                                                   | 139-40-2   | —                                                                             | —                                                                            | 1.4E+02                        | 4.7E+02                         | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+03                        | 7.1E+03                         | —                             | —                                                                            | —                                                                           |
| Propham                                                                     | 122-42-9   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.6E+03                        | 7.1E+03                         | —                             | —                                                                            | —                                                                           |
| Propionitrile (propane nitrile)                                             | 107-12-0   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.3E+01                        | —                               | —                             | —                                                                            | —                                                                           |
| Propyl acetate, n-                                                          | 109-60-4   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 7.4E+03                        | —                               | —                             | —                                                                            | —                                                                           |
| Propylbenzene, n-                                                           | 103-65-1   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 6.3E+03                                                                       | 3.3E+03                                                                      | 3.3E+03                        | —                               | —                             | 6.3E+03                                                                      | 3.3E+03                                                                     |
| Propylene glycol                                                            | 57-55-6    | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 3.7E+02                                                                       | 1.9E+02                                                                      | 1.0E+06                        | 1.0E+06                         | —                             | 3.7E+02                                                                      | 1.9E+02                                                                     |
| Propylene glycol monomethyl ether                                           | 107-98-2   | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 2.3E+05                                                                       | 1.2E+05                                                                      | 5.7E+04                        | —                               | —                             | 2.3E+05                                                                      | 1.2E+05                                                                     |
| Propylene oxide                                                             | 75-56-9    | 9.7E+01                                                                       | 5.0E+01                                                                      | 2.5E+01                        | —                               | —                             | 9.7E+01                                                                      | 5.0E+01                                                                     | 4.6E+02                                                                       | 2.4E+02                                                                      | —                              | —                               | —                             | 4.6E+02                                                                      | 2.4E+02                                                                     |
| Propylene tetramer                                                          | 6842-15-5  | —                                                                             | —                                                                            | —                              | —                               | —                             | —                                                                            | —                                                                           | 1.5E+04                                                                       | 7.9E+03                                                                      | 8.2E+03                        | 3.6E+04                         | —                             | 1.5E+04                                                                      | 7.9E+03                                                                     |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                       | CAS         | Carcinogenic                                                                   |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           | Noncarcinogenic                                                                |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           |
|-------------------------------------------|-------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                           |             | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5<br>acre source<br>area (mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Alr <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Prothiofos (Tokuthion)                    | 34643-46-4  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+00                        | 3.6E+01                         | 4.9E+02                       | —                                                                                          | —                                                                                         |
| Pyrene                                    | 129-00-0    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+03                        | 8.2E+03                         | 1.7E+04                       | —                                                                                          | —                                                                                         |
| Pyridine                                  | 110-86-1    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+01                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Quinoline                                 | 91-22-5     | —                                                                              | —                                                                             | 2.0E+00                        | 6.9E+00                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Ronnel                                    | 299-84-3    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+03                        | 1.8E+04                         | 7.0E+03                       | —                                                                                          | —                                                                                         |
| Safrrole                                  | 94-59-7     | 6.7E+01                                                                        | 3.4E+01                                                                       | 2.8E+01                        | 9.4E+01                         | —                             | 6.7E+01                                                                                    | 3.4E+01                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Selenium                                  | 7782-49-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+02                        | 1.8E+04                         | 1.3E+03                       | —                                                                                          | —                                                                                         |
| Selenourea                                | 630-10-4    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+02                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Silver                                    | 7440-22-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+02                        | 7.1E+02                         | 1.5E+02                       | —                                                                                          | —                                                                                         |
| Simazine                                  | 122-34-9    | —                                                                              | —                                                                             | 5.1E+01                        | 1.7E+02                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+02                        | 1.8E+03                         | —                             | —                                                                                          | —                                                                                         |
| Sodium*                                   | 7440-23-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Sodium hypochlorite                       | 7681-52-9   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.0E+05                                                                        | 1.5E+05                                                                       | 1.7E+04                        | 1.5E+05                         | —                             | —                                                                                          | —                                                                                         |
| Sodium polyacrylate                       | 9003-04-7   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.2E+02                                                                        | 6.2E+01                                                                       | 4.1E+04                        | —                               | —                             | 1.2E+02                                                                                    | 6.2E+01                                                                                   |
| Strontium                                 | 7440-24-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.9E+04                        | 4.3E+05                         | —                             | —                                                                                          | —                                                                                         |
| Strychnine                                | 57-24-9     | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Styrene                                   | 100-42-5    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.1E+04                                                                        | 5.8E+03                                                                       | 1.6E+04                        | —                               | —                             | 1.1E+04                                                                                    | 5.8E+03                                                                                   |
| Sulfate*                                  | 14808-79-8  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Sulfide*                                  | 18496-25-8  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Sulfolane                                 | 126-33-0    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 8.6E+02                                                                        | 4.4E+02                                                                       | 1.1E+03                        | 4.6E+03                         | —                             | 8.6E+02                                                                                    | 4.4E+02                                                                                   |
| Sulfur*                                   | 7704-34-9   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Sulprofos (Bolstar)                       | 35400-43-2  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | 8.4E+03                       | —                                                                                          | —                                                                                         |
| Tebuconazole                              | 107534-96-3 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+03                        | 1.1E+04                         | —                             | —                                                                                          | —                                                                                         |
| Tebuthiuron                               | 34014-18-1  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 5.7E+03                        | 2.5E+04                         | —                             | —                                                                                          | —                                                                                         |
| Terbufos                                  | 13071-79-9  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.0E+00                        | 8.9E+00                         | —                             | —                                                                                          | —                                                                                         |
| Tert-amyl ethyl ether (TAEE)              | 919-94-8    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Tert-amyl-methyl ether (TAME)             | 994-05-8    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.3E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0     | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.6E+05                                                                        | 1.9E+05                                                                       | 5.7E+04                        | —                               | —                             | 3.6E+05                                                                                    | 1.9E+05                                                                                   |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | 4.2E+01                       | —                                                                                          | —                                                                                         |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3     | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6    | 9.1E+01                                                                        | 4.7E+01                                                                       | 2.3E+02                        | —                               | —                             | 9.1E+01                                                                                    | 4.7E+01                                                                                   | —                                                                              | —                                                                             | 2.5E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5     | —                                                                              | —                                                                             | 3.0E+01                        | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+03                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Tetrachloroethylene [PCE]                 | 127-18-4    | 9.4E+02                                                                        | 4.8E+02                                                                       | 2.9E+03                        | —                               | —                             | 9.4E+02                                                                                    | 4.8E+02                                                                                   | 5.7E+03                                                                        | 2.9E+03                                                                       | 1.7E+03                        | —                               | —                             | 5.7E+03                                                                                    | 2.9E+03                                                                                   |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+03                        | 1.1E+04                         | 5.0E+02                       | —                                                                                          | —                                                                                         |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2     | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+03                        | 1.1E+04                         | 2.0E+02                       | —                                                                                          | —                                                                                         |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+03                        | 1.1E+04                         | 2.3E+01                       | —                                                                                          | —                                                                                         |
| Tetrachlorvinphos (Stirophos)             | 22248-79-9  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 3.4E+03                        | 1.5E+04                         | 4.5E+04                       | —                                                                                          | —                                                                                         |
| Tetradifon                                | 116-29-0    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+03                        | 7.1E+03                         | 4.9E+03                       | —                                                                                          | —                                                                                         |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+01                        | 1.8E+02                         | —                             | —                                                                                          | —                                                                                         |
| Tetraethyl lead                           | 78-00-2     | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E-03                        | 3.6E-02                         | —                             | —                                                                                          | —                                                                                         |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 9.0E-01                        | 3.9E+00                         | —                             | —                                                                                          | —                                                                                         |
| Tetraethylene glycol                      | 112-60-7    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.7E+04                        | 1.2E+05                         | —                             | —                                                                                          | —                                                                                         |
| Tetrahydrofuran                           | 109-99-9    | 1.9E+02                                                                        | 9.7E+01                                                                       | 8.0E+02                        | —                               | —                             | 1.9E+02                                                                                    | 9.7E+01                                                                                   | 3.1E+04                                                                        | 1.6E+04                                                                       | 7.4E+04                        | —                               | —                             | 3.1E+04                                                                                    | 1.6E+04                                                                                   |
| Tetrahydropyran                           | 142-68-7    | 2.0E+02                                                                        | 1.0E+02                                                                       | 8.0E+02                        | —                               | —                             | 2.0E+02                                                                                    | 1.0E+02                                                                                   | —                                                                              | —                                                                             | 1.6E+04                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.0E+03                        | 8.9E+03                         | —                             | —                                                                                          | —                                                                                         |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                     | CAS        | Carcinogenic                                                                   |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           | Noncarcinogenic                                                                |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           |
|-----------------------------------------|------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                         |            | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -v <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Thallium                                | 7440-28-0  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 5.5E+00                        | 2.4E+02                         | 3.7E+02                       | —                                                                                          | —                                                                                         |
| Thiofanox                               | 39196-18-4 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Thionazin                               | 297-97-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 5.7E+00                        | 2.5E+01                         | —                             | —                                                                                          | —                                                                                         |
| Thiophanate-methyl                      | 23564-05-8 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 6.6E+03                        | 2.8E+04                         | —                             | —                                                                                          | —                                                                                         |
| Thiram                                  | 137-26-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+02                        | 1.8E+03                         | —                             | —                                                                                          | —                                                                                         |
| Tin                                     | 7440-31-5  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.9E+04                        | 2.1E+05                         | 3.1E+05                       | —                                                                                          | —                                                                                         |
| Titanium                                | 7440-32-6  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+05                        | 5.3E+05                         | 1.0E+06                       | —                                                                                          | —                                                                                         |
| Toluene                                 | 108-88-3   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 6.3E+04                                                                        | 3.2E+04                                                                       | 6.6E+03                        | —                               | —                             | 6.3E+04                                                                                    | 3.2E+04                                                                                   |
| Toluene diisocyanate, 2,4/2,6-          | 26471-62-5 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.5E+02                                                                        | 7.5E+01                                                                       | —                              | —                               | —                             | 1.5E+02                                                                                    | 7.5E+01                                                                                   |
| Toluenediamine, 2,4-                    | 95-80-7    | —                                                                              | —                                                                             | 1.9E+00                        | 6.5E+00                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Toluenediamine, 2,6-                    | 823-40-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+03                        | 1.1E+04                         | —                             | —                                                                                          | —                                                                                         |
| Toluidine, o-                           | 95-53-4    | 1.4E+02                                                                        | 7.1E+01                                                                       | 3.8E+02                        | 8.7E+01                         | —                             | 1.4E+02                                                                                    | 7.1E+01                                                                                   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Toluidine, p-                           | 106-49-0   | —                                                                              | —                                                                             | 2.0E+02                        | 1.1E+02                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         |
| Toxaphene                               | 8001-35-2  | 9.4E+02                                                                        | 4.8E+02                                                                       | 5.5E+00                        | 1.9E+01                         | 1.8E+00                       | 9.6E+02                                                                                    | 4.9E+02                                                                                   | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | 1.6E+01                       | —                                                                                          | —                                                                                         |
| TPH, TX1005, C6-C12                     | TPH-1005-1 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.1E+03                                                                        | 1.6E+03                                                                       | 3.3E+03                        | —                               | —                             | 3.1E+03                                                                                    | 1.6E+03                                                                                   |
| TPH, TX1005, >C12-C28                   | TPH-1005-2 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.5E+04                                                                        | 7.8E+03                                                                       | 3.3E+03                        | 1.4E+04                         | —                             | 1.5E+04                                                                                    | 7.8E+03                                                                                   |
| TPH, TX1005, >C12-C35                   | TPH-1005-3 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.5E+04                                                                        | 7.8E+03                                                                       | 3.3E+03                        | 1.4E+04                         | —                             | 1.5E+04                                                                                    | 7.8E+03                                                                                   |
| TPH, TX1005, >C28-C35                   | TPH-1005-4 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.5E+04                                                                        | 7.8E+03                                                                       | 3.3E+03                        | 1.4E+04                         | —                             | 1.5E+04                                                                                    | 7.8E+03                                                                                   |
| TP Silvex, 2,4,5-                       | 93-72-1    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 6.6E+02                        | 2.8E+03                         | —                             | —                                                                                          | —                                                                                         |
| Triadimenol                             | 55219-65-3 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+03                        | 1.1E+04                         | —                             | —                                                                                          | —                                                                                         |
| Triallate                               | 2303-17-5  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.1E+03                        | 4.6E+03                         | 5.2E+02                       | —                                                                                          | —                                                                                         |
| Triaminotrinitrobenzene (TATB)          | 3058-38-6  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | —                             | —                                                                                          | —                                                                                         |
| Tributyltin oxide                       | 56-35-9    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Trichloro-1,2,2-trifluoroethane, 1,1,2- | 76-13-1    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 7.7E+04                                                                        | 3.9E+04                                                                       | 1.0E+06                        | —                               | —                             | 7.7E+04                                                                                    | 3.9E+04                                                                                   |
| Trichlorobenzene, 1,2,3-                | 87-61-6    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.0E+02                                                                        | 1.6E+02                                                                       | 2.5E+02                        | 1.1E+03                         | —                             | 3.0E+02                                                                                    | 1.6E+02                                                                                   |
| Trichlorobenzene, 1,2,4-                | 120-82-1   | —                                                                              | —                                                                             | 2.1E+02                        | 7.2E+02                         | —                             | —                                                                                          | —                                                                                         | 1.5E+02                                                                        | 7.8E+01                                                                       | 8.2E+02                        | 3.6E+03                         | —                             | 1.5E+02                                                                                    | 7.8E+01                                                                                   |
| Trichlorobenzene, 1,3,5-                | 108-70-3   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.3E+02                                                                        | 6.5E+01                                                                       | 2.5E+02                        | 1.1E+03                         | —                             | 1.3E+02                                                                                    | 6.5E+01                                                                                   |
| Trichloroethane, 1,1,1-                 | 71-55-6    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 7.8E+04                                                                        | 4.0E+04                                                                       | 1.6E+05                        | —                               | —                             | 7.8E+04                                                                                    | 4.0E+04                                                                                   |
| Trichloroethane, 1,1,2-                 | 79-00-5    | 2.2E+01                                                                        | 1.2E+01                                                                       | 1.1E+02                        | —                               | —                             | 2.2E+01                                                                                    | 1.2E+01                                                                                   | —                                                                              | —                                                                             | 3.3E+02                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Trichloroethylene [TCE]                 | 79-01-6    | 8.7E+01                                                                        | 4.5E+01                                                                       | 1.3E+02                        | —                               | —                             | 8.7E+01                                                                                    | 4.5E+01                                                                                   | 3.1E+01                                                                        | 1.6E+01                                                                       | 4.1E+01                        | —                               | —                             | 3.1E+01                                                                                    | 1.6E+01                                                                                   |
| Trichlorofluoromethane                  | 75-69-4    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+04                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Trichloronate                           | 327-98-0   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+02                        | 1.1E+03                         | 4.4E+02                       | —                                                                                          | —                                                                                         |
| Trichlorophenol, 2,3,4-                 | 15950-66-0 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | —                             | —                                                                                          | —                                                                                         |
| Trichlorophenol, 2,3,5-                 | 933-78-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | —                             | —                                                                                          | —                                                                                         |
| Trichlorophenol, 2,3,6-                 | 933-75-5   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | 5.8E+02                       | —                                                                                          | —                                                                                         |
| Trichlorophenol, 2,4,5-                 | 95-95-4    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | —                             | —                                                                                          | —                                                                                         |
| Trichlorophenol, 2,4,6-                 | 88-06-2    | 2.0E+03                                                                        | 1.0E+03                                                                       | 5.5E+02                        | 1.9E+03                         | —                             | 2.0E+03                                                                                    | 1.0E+03                                                                                   | —                                                                              | —                                                                             | 8.2E+01                        | 3.6E+02                         | —                             | —                                                                                          | —                                                                                         |
| Trichlorophenol, 3,4,5-                 | 609-19-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+03                        | 3.6E+04                         | —                             | —                                                                                          | —                                                                                         |
| Trichlorophenoxyacetic acid, 2,4,5-     | 93-76-5    | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+02                        | 3.6E+03                         | —                             | —                                                                                          | —                                                                                         |
| Trichloropropane, 1,1,2-                | 598-77-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 4.6E+00                                                                        | 2.4E+00                                                                       | 4.1E+02                        | —                               | —                             | 4.6E+00                                                                                    | 2.4E+00                                                                                   |
| Trichloropropane, 1,2,3-                | 96-18-4    | —                                                                              | —                                                                             | 2.0E-01                        | —                               | —                             | —                                                                                          | —                                                                                         | 1.4E+01                                                                        | 7.2E+00                                                                       | 3.3E+02                        | —                               | —                             | 1.4E+01                                                                                    | 7.2E+00                                                                                   |
| Triethanolamine                         | 102-71-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.9E+03                                                                        | 2.0E+03                                                                       | 1.6E+04                        | 7.1E+04                         | —                             | 3.9E+03                                                                                    | 2.0E+03                                                                                   |
| Triethylamine                           | 121-44-8   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.1E+02                                                                        | 5.5E+01                                                                       | —                              | —                               | —                             | 1.1E+02                                                                                    | 5.5E+01                                                                                   |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                   | CAS       | Carcinogenic                                                                   |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           | Noncarcinogenic                                                                |                                                                               |                                |                                 |                               |                                                                                            |                                                                                           |
|-----------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                                       |           | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>0.5<br>acre source<br>area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Inh</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Veg <sub>Inh</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Triethylene glycol                                                    | 112-27-6  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+05                        | 7.1E+05                         | —                             | —                                                                                          | —                                                                                         |
| Triethylphosphorothioate, O, O, O-                                    | 126-68-1  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 6.8E-01                        | 3.0E+00                         | —                             | —                                                                                          | —                                                                                         |
| Trifluralin                                                           | 1582-09-8 | —                                                                              | —                                                                             | 7.9E+02                        | 2.7E+03                         | 5.0E+02                       | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 6.1E+02                        | 2.7E+03                         | 7.7E+02                       | —                                                                                          | —                                                                                         |
| Trimethylamine                                                        | 75-50-3   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.5E+02                                                                        | 7.6E+01                                                                       | —                              | —                               | —                             | 1.5E+02                                                                                    | 7.6E+01                                                                                   |
| Trimethylbenzene, 1,2,3-                                              | 526-73-8  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.6E+03                                                                        | 1.9E+03                                                                       | 2.8E+03                        | —                               | —                             | 3.6E+03                                                                                    | 1.9E+03                                                                                   |
| Trimethylbenzene, 1,2,4-                                              | 95-63-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 4.0E+03                                                                        | 2.1E+03                                                                       | 2.8E+03                        | —                               | —                             | 4.0E+03                                                                                    | 2.1E+03                                                                                   |
| Trimethylbenzene, 1,3,5-                                              | 108-67-8  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.5E+03                                                                        | 1.8E+03                                                                       | 2.8E+03                        | —                               | —                             | 3.5E+03                                                                                    | 1.8E+03                                                                                   |
| Trinitrobenzene, 1,3,5-                                               | 99-35-4   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+03                        | 1.1E+04                         | —                             | —                                                                                          | —                                                                                         |
| Trinitrophenylmethylnitramine (tetryl; nitramine)                     | 479-45-8  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+02                        | 1.4E+03                         | —                             | —                                                                                          | —                                                                                         |
| Trinitrotoluene, 2,4,6-                                               | 118-96-7  | —                                                                              | —                                                                             | 2.0E+02                        | 6.9E+02                         | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+01                        | 1.8E+02                         | —                             | —                                                                                          | —                                                                                         |
| Tungsten (as sodium tungstate dihydride)                              | 7440-33-7 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.0E+06                                                                        | 1.0E+06                                                                       | 8.2E+01                        | 7.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Uranium (soluble salts)                                               | 7440-61-1 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.9E+04                                                                        | 2.0E+04                                                                       | 2.5E+02                        | 1.1E+04                         | 2.9E+03                       | —                                                                                          | —                                                                                         |
| Valeric acid (pentanoic acid)                                         | 109-52-4  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.3E+02                                                                        | 6.8E+01                                                                       | 4.1E+04                        | 1.8E+05                         | —                             | 1.3E+02                                                                                    | 6.8E+01                                                                                   |
| Vanadium                                                              | 7440-62-2 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.9E+04                                                                        | 1.5E+04                                                                       | 1.5E+02                        | 1.7E+02                         | 2.4E+03                       | —                                                                                          | —                                                                                         |
| Vernam                                                                | 1929-77-7 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 8.2E+01                        | 3.6E+02                         | —                             | —                                                                                          | —                                                                                         |
| Vinyl acetate                                                         | 108-05-4  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 3.1E+03                                                                        | 1.6E+03                                                                       | 8.2E+04                        | —                               | —                             | 3.1E+03                                                                                    | 1.6E+03                                                                                   |
| Vinyl chloride                                                        | 75-01-4   | 4.3E+01                                                                        | 2.2E+01                                                                       | 4.0E+00                        | —                               | —                             | 4.3E+01                                                                                    | 2.2E+01                                                                                   | 9.2E+02                                                                        | 4.7E+02                                                                       | 2.5E+02                        | —                               | —                             | 9.2E+02                                                                                    | 4.7E+02                                                                                   |
| Vinylcyclohexane                                                      | 695-12-5  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 4.1E+04                        | —                               | —                             | —                                                                                          | —                                                                                         |
| Warfarin                                                              | 81-81-2   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+01                        | 1.1E+02                         | —                             | —                                                                                          | —                                                                                         |
| Xylene, m-                                                            | 108-38-3  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 9.4E+03                                                                        | 4.8E+03                                                                       | 1.6E+05                        | —                               | —                             | 9.4E+03                                                                                    | 4.8E+03                                                                                   |
| Xylene, o-                                                            | 95-47-6   | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 6.8E+04                                                                        | 3.5E+04                                                                       | 1.6E+05                        | —                               | —                             | 6.8E+04                                                                                    | 3.5E+04                                                                                   |
| Xylene, p-                                                            | 106-42-3  | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 9.4E+03                                                                        | 4.8E+03                                                                       | 1.6E+05                        | —                               | —                             | 9.4E+03                                                                                    | 4.8E+03                                                                                   |
| Xylenes                                                               | 1330-20-7 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 9.4E+03                                                                        | 4.8E+03                                                                       | 1.6E+04                        | —                               | —                             | 9.4E+03                                                                                    | 4.8E+03                                                                                   |
| Zinc                                                                  | 7440-66-6 | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 2.5E+04                        | 2.1E+05                         | 1.8E+04                       | —                                                                                          | —                                                                                         |
| 6 C aliphatics (TPH) (>53% n-hexane content)                          | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.0E+04                                                                        | 5.3E+03                                                                       | 4.9E+03                        | —                               | —                             | 1.0E+04                                                                                    | 5.3E+03                                                                                   |
| 6 C aliphatics (TPH) (<53% n-hexane content)                          | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.8E+05                                                                        | 1.5E+05                                                                       | 4.9E+03                        | —                               | —                             | 2.8E+05                                                                                    | 1.5E+05                                                                                   |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)                       | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.0E+04                                                                        | 5.3E+03                                                                       | 4.9E+03                        | —                               | —                             | 1.0E+04                                                                                    | 5.3E+03                                                                                   |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)                       | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 2.8E+05                                                                        | 1.5E+05                                                                       | 4.9E+03                        | —                               | —                             | 2.8E+05                                                                                    | 1.5E+05                                                                                   |
| >8-10 C aliphatics (TPH)                                              | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 7.7E+03                                                                        | 3.9E+03                                                                       | 8.2E+03                        | —                               | —                             | 7.7E+03                                                                                    | 3.9E+03                                                                                   |
| >10-12 C aliphatics (TPH)                                             | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 7.7E+03                                                                        | 3.9E+03                                                                       | 8.2E+03                        | 3.6E+04                         | —                             | 7.7E+03                                                                                    | 3.9E+03                                                                                   |
| >12-16 C aliphatics (TPH)                                             | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | 1.2E+04                                                                        | 6.2E+03                                                                       | 8.2E+03                        | 3.6E+04                         | —                             | 1.2E+04                                                                                    | 6.2E+03                                                                                   |
| >16-21 C aliphatics (TPH)                                             | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+05                        | 7.1E+05                         | —                             | —                                                                                          | —                                                                                         |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only) | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.3E+05                        | 7.1E+05                         | —                             | —                                                                                          | —                                                                                         |
| >21-35 C aliphatics (TPH)                                             | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.6E+05                        | 5.7E+05                         | —                             | —                                                                                          | —                                                                                         |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only) | NA        | —                                                                              | —                                                                             | —                              | —                               | —                             | —                                                                                          | —                                                                                         | —                                                                              | —                                                                             | 1.3E+05                        | 5.7E+05                         | —                             | —                                                                                          | —                                                                                         |

**Table 6**  
**Tier 1 Individual Residential Soil PCLs**

Last Revised: February 6, 2025

| Chemical of Concern                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CAS | Carcinogenic                                                                 |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            | Noncarcinogenic                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     | AlrSoil <sub>Inh-vp</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | AlrSoil <sub>Inh-vp</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | SoilSoil <sub>Ing</sub><br>(mg/kg) | SoilSoil <sub>Derm</sub><br>(mg/kg) | VegSoil <sub>Ing</sub><br>(mg/kg) | AlrSoil <sub>Inh-v</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | AlrSoil <sub>Inh-v</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | AlrSoil <sub>Inh-vp</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/kg) | AlrSoil <sub>Inh-vp</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | SoilSoil <sub>Ing</sub><br>(mg/kg) | SoilSoil <sub>Derm</sub><br>(mg/kg) | VegSoil <sub>Ing</sub><br>(mg/kg) | AlrSoil <sub>Inh-v</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | AlrSoil <sub>Inh-v</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| >7-8 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | —                                                                            | —                                                                           | —                                  | —                                   | —                                 | —                                                                           | —                                                                          | 2.9E+04                                                                      | 1.5E+04                                                                     | 8.2E+03                            | —                                   | —                                 | 2.9E+04                                                                     | 1.5E+04                                                                    |
| >8-10 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NA  | —                                                                            | —                                                                           | —                                  | —                                   | —                                 | —                                                                           | —                                                                          | 3.1E+03                                                                      | 1.6E+03                                                                     | 3.3E+03                            | —                                   | —                                 | 3.1E+03                                                                     | 1.6E+03                                                                    |
| >10-12 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA  | —                                                                            | —                                                                           | —                                  | —                                   | —                                 | —                                                                           | —                                                                          | 6.6E+03                                                                      | 3.4E+03                                                                     | 3.3E+03                            | 1.4E+04                             | —                                 | 6.6E+03                                                                     | 3.4E+03                                                                    |
| >12-16 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA  | —                                                                            | —                                                                           | —                                  | —                                   | —                                 | —                                                                           | —                                                                          | 1.5E+04                                                                      | 7.8E+03                                                                     | 3.3E+03                            | 1.4E+04                             | —                                 | 1.5E+04                                                                     | 7.8E+03                                                                    |
| >16-21 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA  | —                                                                            | —                                                                           | —                                  | —                                   | —                                 | —                                                                           | —                                                                          | —                                                                            | —                                                                           | 2.5E+03                            | 1.1E+04                             | —                                 | —                                                                           | —                                                                          |
| >21-35 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA  | —                                                                            | —                                                                           | —                                  | —                                   | —                                 | —                                                                           | —                                                                          | —                                                                            | —                                                                           | 2.5E+03                            | 1.1E+04                             | —                                 | —                                                                           | —                                                                          |
| <b>Footnotes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |
| <b>1</b> For subsurface soils only                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |
| <b>2</b> Site-specific PCLs for mercury may vary based on the pH-dependent Kd value (see Figure:30 TAC §350.73(f)(1)(C)). Persons should use the Tier 1 pH 4.9-based PCLs unless a site-specific soil pH > 6.8 is demonstrated with site-specific soil samples.                                                                                                                                                                                                               |     |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |
| * These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <a href="http://www.tceq.state.tx.us/remediation/trrp/trrp.html">http://www.tceq.state.tx.us/remediation/trrp/trrp.html</a> . |     |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |
| NA = not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |
| All values capped at 1E+06                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |                                                                              |                                                                             |                                    |                                     |                                   |                                                                             |                                                                            |

This table shows individual residential soil protective concentration levels with both carcinogenic and non-carcinogenic values depicted  
end of worksheet

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS        | Carcinogenic                                                                |                                                                            |                                                |                                                 |                                                                                         |                                                                                        | Noncarcinogenic                                                             |                                                                               |                                                |                                                 |                                                                                         |                                                                                        |
|------------------------------------------|------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                          |            | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30<br>acre source<br>area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Acenaphthene                             | 83-32-9    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 6.1E+04                                        | 9.4E+04                                         | —                                                                                       | —                                                                                      |
| Acenaphthylene                           | 208-96-8   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 6.1E+04                                        | 9.4E+04                                         | —                                                                                       | —                                                                                      |
| Acetaldehyde                             | 75-07-0    | 2.9E+02                                                                     | 1.5E+02                                                                    | —                                              | —                                               | 2.9E+02                                                                                 | 1.5E+02                                                                                | 2.0E+02                                                                     | 1.0E+02                                                                       | 1.0E+05                                        | —                                               | 2.0E+02                                                                                 | 1.0E+02                                                                                |
| Acetate, 2-ethoxyethanol                 | 111-15-9   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 8.4E+03                                                                     | 4.3E+03                                                                       | 1.0E+05                                        | —                                               | 8.4E+03                                                                                 | 4.3E+03                                                                                |
| Acetate, isoamyl                         | 123-92-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 7.4E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Acetate, isobutyl                        | 110-19-0   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 4.9E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Acetate, sec-butyl                       | 105-46-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 4.9E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Acetic acid*                             | 64-19-7    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Acetone (2-propanone)                    | 67-64-1    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 8.4E+05                                                                     | 4.3E+05                                                                       | 9.2E+05                                        | —                                               | 8.4E+05                                                                                 | 4.3E+05                                                                                |
| Acetone cyanohydrin                      | 75-86-5    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 6.1E+03                                                                     | 3.1E+03                                                                       | 3.1E+03                                        | 6.1E+03                                         | 6.1E+03                                                                                 | 3.1E+03                                                                                |
| Acetonitrile                             | 75-05-8    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.8E+03                                                                     | 9.4E+02                                                                       | 3.3E+04                                        | —                                               | 1.8E+03                                                                                 | 9.4E+02                                                                                |
| Acetophenone                             | 98-86-2    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+05                                        | 2.0E+05                                         | —                                                                                       | —                                                                                      |
| Acetylaminofluorene, 2-                  | 53-96-3    | 3.1E+01                                                                     | 1.6E+01                                                                    | 7.5E+00                                        | 1.5E+01                                         | 3.1E+01                                                                                 | 1.6E+01                                                                                | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Acifluorfen, sodium                      | 62476-59-9 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.3E+04                                        | 2.7E+04                                         | —                                                                                       | —                                                                                      |
| Acridine                                 | 260-94-6   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Acrolein                                 | 107-02-8   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.1E+02                                                                     | 1.1E+02                                                                       | 5.1E+02                                        | —                                               | 2.1E+02                                                                                 | 1.1E+02                                                                                |
| Acrylamide                               | 79-06-1    | 4.7E+01                                                                     | 2.4E+01                                                                    | 5.7E+01                                        | 1.1E+02                                         | 4.7E+01                                                                                 | 2.4E+01                                                                                | 1.0E+03                                                                     | 5.2E+02                                                                       | 2.0E+03                                        | 4.1E+03                                         | 1.0E+03                                                                                 | 5.2E+02                                                                                |
| Acrylic acid                             | 79-10-7    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.7E+02                                                                     | 8.7E+01                                                                       | 5.1E+05                                        | —                                               | 1.7E+02                                                                                 | 8.7E+01                                                                                |
| Acrylonitrile                            | 107-13-1   | 8.8E+00                                                                     | 4.6E+00                                                                    | 5.3E+01                                        | —                                               | 8.8E+00                                                                                 | 4.6E+00                                                                                | 4.3E+01                                                                     | 2.2E+01                                                                       | 1.0E+03                                        | —                                               | 4.3E+01                                                                                 | 2.2E+01                                                                                |
| Adipic acid (hexanedioic acid)           | 124-04-9   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+06                                        | 1.0E+06                                         | —                                                                                       | —                                                                                      |
| Alachlor                                 | 15972-60-8 | —                                                                           | —                                                                          | 3.6E+02                                        | 7.2E+02                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+04                                        | 2.0E+04                                         | —                                                                                       | —                                                                                      |
| Aldicarb                                 | 116-06-3   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+03                                        | 2.0E+03                                         | —                                                                                       | —                                                                                      |
| Aldicarb sulfone                         | 1646-88-4  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+03                                        | 2.0E+03                                         | —                                                                                       | —                                                                                      |
| Aldrin                                   | 309-00-2   | 1.4E+01                                                                     | 7.2E+00                                                                    | 1.7E+00                                        | 3.4E+00                                         | 1.4E+01                                                                                 | 7.2E+00                                                                                | —                                                                           | —                                                                             | 3.1E+01                                        | 6.1E+01                                         | —                                                                                       | —                                                                                      |
| Allyl alcohol                            | 107-18-6   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 8.0E+00                                                                     | 4.1E+00                                                                       | 5.1E+03                                        | —                                               | 8.0E+00                                                                                 | 4.1E+00                                                                                |
| Allyl chloride                           | 107-05-1   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.1E+01                                                                     | 1.1E+01                                                                       | 1.0E+04                                        | —                                               | 2.1E+01                                                                                 | 1.1E+01                                                                                |
| Aluminum                                 | 7429-90-5  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.0E+06                                                                     | 1.0E+06                                                                       | 1.0E+06                                        | 1.0E+06                                         | —                                                                                       | —                                                                                      |
| Ametryn                                  | 834-12-8   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 9.2E+03                                        | 1.8E+04                                         | —                                                                                       | —                                                                                      |
| Amino-2,6-dinitrotoluene, 4-             | 19406-51-0 | —                                                                           | —                                                                          | 9.5E+02                                        | 1.9E+03                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 5.1E+02                                        | 1.0E+03                                         | —                                                                                       | —                                                                                      |
| Amino-4,6-dinitrotoluene, 2-             | 35572-78-2 | —                                                                           | —                                                                          | 9.5E+02                                        | 1.9E+03                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 5.1E+02                                        | 1.0E+03                                         | —                                                                                       | —                                                                                      |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine) | 92-67-1    | —                                                                           | —                                                                          | 4.7E+00                                        | 9.4E+00                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Aminopyridine, 4-                        | 504-24-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+01                                        | 4.1E+01                                         | —                                                                                       | —                                                                                      |
| Ammonia                                  | 7664-41-7  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 6.9E+03                                                                     | 3.5E+03                                                                       | —                                              | —                                               | 6.9E+03                                                                                 | 3.5E+03                                                                                |
| Ammonium polyphosphate*                  | 6833-79-9  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Ammonium salts*                          | AMMONIUM   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Aniline                                  | 62-53-3    | —                                                                           | —                                                                          | 5.0E+03                                        | 1.0E+04                                         | —                                                                                       | —                                                                                      | 1.8E+02                                                                     | 9.4E+01                                                                       | 7.2E+03                                        | 1.4E+04                                         | 1.8E+02                                                                                 | 9.4E+01                                                                                |
| Anthracene                               | 120-12-7   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+05                                        | 4.7E+05                                         | —                                                                                       | —                                                                                      |
| Anthraquinone, 9,10-                     | 84-65-1    | —                                                                           | —                                                                          | 7.3E+02                                        | 1.5E+03                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+04                                        | 4.1E+04                                         | —                                                                                       | —                                                                                      |
| Antimony                                 | 7440-36-0  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 4.1E+02                                        | 1.2E+03                                         | —                                                                                       | —                                                                                      |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | Carcinogenic                                                         |                                                                     |                             |                              |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
|-----------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                               |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) |
| Aramite                                       | 140-57-8   | 1.0E+06                                                              | 1.0E+06                                                             | 1.1E+03                     | 2.3E+03                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+04                     | 1.0E+05                      | —                                                                   | —                                                                  |
| Arsenic                                       | 7440-38-2  | 2.5E+05                                                              | 1.3E+05                                                             | 2.4E+02                     | 1.3E+03                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.9E+02                     | 2.0E+03                      | —                                                                   | —                                                                  |
| Arsine                                        | 7784-42-1  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.1E+00                                                              | 5.5E-01                                                             | —                           | —                            | 1.1E+00                                                             | 5.5E-01                                                            |
| Atrazine                                      | 1912-24-9  | —                                                                    | —                                                                   | 1.3E+02                     | 2.6E+02                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.6E+04                     | 7.2E+04                      | —                                                                   | —                                                                  |
| Azinphos-methyl (guthion)                     | 86-50-0    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.5E+03                     | 3.1E+03                      | —                                                                   | —                                                                  |
| Azobenzene                                    | 103-33-3   | 2.3E+03                                                              | 1.2E+03                                                             | 2.6E+02                     | 5.2E+02                      | 2.3E+03                                                             | 1.2E+03                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Barium                                        | 7440-39-3  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+05                     | 2.9E+05                      | —                                                                   | —                                                                  |
| Bayleton                                      | 43121-43-3 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+04                     | 6.1E+04                      | —                                                                   | —                                                                  |
| Benefin (benfluralin)                         | 1861-40-1  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+05                     | 6.1E+05                      | —                                                                   | —                                                                  |
| Benomyl                                       | 17804-35-2 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+04                     | 1.0E+05                      | —                                                                   | —                                                                  |
| Benz-a-anthracene                             | 56-55-3    | 9.1E+03                                                              | 4.7E+03                                                             | 2.9E+02                     | 4.4E+02                      | 9.2E+03                                                             | 4.7E+03                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Benzaldehyde                                  | 100-52-7   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | —                            | —                                                                   | —                                                                  |
| Benzene                                       | 71-43-2    | 2.7E+02                                                              | 1.4E+02                                                             | 1.9E+03                     | —                            | 2.7E+02                                                             | 1.4E+02                                                            | 6.0E+03                                                              | 3.1E+03                                                             | 4.1E+03                     | —                            | 6.0E+03                                                             | 3.1E+03                                                            |
| Benzenedicarbonitrile, 1,3-                   | 626-17-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 6.1E+03                     | 1.2E+04                      | —                                                                   | —                                                                  |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.0E+06                                                              | 1.0E+06                                                             | 4.1E+04                     | 8.2E+04                      | 1.0E+06                                                             | 1.0E+06                                                            |
| Benzenethiol                                  | 108-98-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+03                     | —                            | —                                                                   | —                                                                  |
| Benzidine                                     | 92-87-5    | 1.1E-01                                                              | 5.4E-02                                                             | 1.2E-01                     | 2.5E-01                      | 1.1E-01                                                             | 5.4E-02                                                            | —                                                                    | —                                                                   | 3.1E+03                     | 6.1E+03                      | —                                                                   | —                                                                  |
| Benzo-a-pyrene                                | 50-32-8    | 2.0E+03                                                              | 1.0E+03                                                             | 2.9E+01                     | 4.4E+01                      | 2.1E+03                                                             | 1.1E+03                                                            | 8.7E+01                                                              | 4.5E+01                                                             | 3.1E+02                     | 4.7E+02                      | 8.9E+01                                                             | 4.6E+01                                                            |
| Benzo-b-fluoranthene                          | 205-99-2   | 1.5E+04                                                              | 7.6E+03                                                             | 2.9E+02                     | 4.4E+02                      | 1.5E+04                                                             | 7.8E+03                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Benzo-e-pyrene                                | 192-97-2   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+04                     | 4.7E+04                      | —                                                                   | —                                                                  |
| Benzo-g,h,i-perylene                          | 191-24-2   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+04                     | 4.7E+04                      | —                                                                   | —                                                                  |
| Benzoic acid                                  | 65-85-0    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Benzo-j-fluoranthene                          | 205-82-3   | 7.8E+03                                                              | 4.0E+03                                                             | 2.9E+02                     | 4.4E+02                      | 7.9E+03                                                             | 4.1E+03                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Benzo-k-fluoranthene                          | 207-08-9   | 3.5E+05                                                              | 1.8E+05                                                             | 2.9E+03                     | 4.4E+03                      | 3.8E+05                                                             | 1.9E+05                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Benzophenone                                  | 119-61-9   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 6.8E+03                     | 1.4E+04                      | —                                                                   | —                                                                  |
| Benzotrichloride                              | 98-07-7    | —                                                                    | —                                                                   | 2.2E+00                     | 4.4E+00                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Benzoyl peroxide                              | 94-36-0    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+04                     | 1.0E+05                      | —                                                                   | —                                                                  |
| Benzyl alcohol                                | 100-51-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Benzyl chloride                               | 100-44-7   | —                                                                    | —                                                                   | 1.7E+02                     | —                            | —                                                                   | —                                                                  | 4.3E+01                                                              | 2.2E+01                                                             | 2.0E+03                     | —                            | 4.3E+01                                                             | 2.2E+01                                                            |
| Benzyl dichloride                             | 98-87-3    | —                                                                    | —                                                                   | 1.7E+02                     | 3.4E+02                      | —                                                                   | —                                                                  | 7.7E+01                                                              | 4.0E+01                                                             | 2.0E+03                     | 4.1E+03                      | 7.7E+01                                                             | 4.0E+01                                                            |
| Beryllium                                     | 7440-41-7  | 1.6E+04                                                              | 8.1E+03                                                             | —                           | —                            | —                                                                   | —                                                                  | 1.4E+03                                                              | 7.0E+02                                                             | 2.0E+03                     | 2.9E+02                      | —                                                                   | —                                                                  |
| Biphenyl, 1,1-                                | 92-52-4    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+05                     | 1.0E+05                      | —                                                                   | —                                                                  |
| Biphenyl, 1,1', 2-phenoxy-                    | 6738-04-1  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+04                     | 1.0E+05                      | —                                                                   | —                                                                  |
| Biquinoline, 2,2'-                            | 119-91-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+03                     | 6.1E+03                      | —                                                                   | —                                                                  |
| Bis (2-chloroethoxy) methane                  | 111-91-1   | 1.9E+01                                                              | 9.8E+00                                                             | 2.6E+01                     | 5.2E+01                      | 1.9E+01                                                             | 9.8E+00                                                            | —                                                                    | —                                                                   | 3.1E+03                     | 6.1E+03                      | —                                                                   | —                                                                  |
| Bis (2-chloroethyl) ether                     | 111-44-4   | 6.0E+00                                                              | 3.1E+00                                                             | 2.6E+01                     | —                            | 6.0E+00                                                             | 3.1E+00                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Bis (2-chloro-1-methylethyl) ether            | 108-60-1   | 3.5E+02                                                              | 1.8E+02                                                             | 4.1E+02                     | 8.2E+02                      | 3.5E+02                                                             | 1.8E+02                                                            | —                                                                    | —                                                                   | 4.1E+04                     | 8.2E+04                      | —                                                                   | —                                                                  |
| Bis (2-chloromethyl) ether                    | 542-88-1   | 9.7E-03                                                              | 5.0E-03                                                             | 1.3E-01                     | —                            | 9.7E-03                                                             | 5.0E-03                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Bis (2-ethyl-hexyl) phthalate                 | 117-81-7   | —                                                                    | —                                                                   | 2.0E+03                     | 7.8E+02                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+04                     | 7.8E+03                      | —                                                                   | —                                                                  |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                        | CAS       | Carcinogenic                                                         |                                                                     |                             |                              |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
|------------------------------------------------------------|-----------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                            |           | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Inh</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Inh</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) |
| Bismuth                                                    | 7440-69-9 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+05                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Bisphenol A                                                | 80-05-7   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+04                     | 1.0E+05                      | —                                                                   | —                                                                  |
| Boron                                                      | 7440-42-8 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.0E+06                                                              | 1.0E+06                                                             | 2.0E+05                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Bromacil                                                   | 314-40-9  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Bromo-2-chloroethane, 1-                                   | 107-04-0  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                     | —                            | —                                                                   | —                                                                  |
| Bromobenzene                                               | 108-86-1  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.4E+03                                                              | 7.0E+02                                                             | 8.2E+03                     | —                            | 1.4E+03                                                             | 7.0E+02                                                            |
| Bromodichloromethane                                       | 75-27-4   | —                                                                    | —                                                                   | 4.6E+02                     | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+03                     | —                            | —                                                                   | —                                                                  |
| Bromoform                                                  | 75-25-2   | 1.4E+03                                                              | 7.2E+02                                                             | 3.6E+03                     | —                            | 1.4E+03                                                             | 7.2E+02                                                            | —                                                                    | —                                                                   | 2.0E+04                     | —                            | —                                                                   | —                                                                  |
| Bromomethane                                               | 74-83-9   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 8.4E+01                                                              | 4.3E+01                                                             | 1.4E+03                     | —                            | 8.4E+01                                                             | 4.3E+01                                                            |
| Bromophenyl phenylether, 4-                                | 101-55-3  | 1.6E+01                                                              | 8.4E+00                                                             | 1.9E+00                     | 3.8E+00                      | 1.6E+01                                                             | 8.4E+00                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Butadiene, 1,3-                                            | 106-99-0  | 1.2E+03                                                              | 6.2E+02                                                             | —                           | —                            | 1.2E+03                                                             | 6.2E+02                                                            | 7.1E+02                                                              | 3.6E+02                                                             | —                           | —                            | 7.1E+02                                                             | 3.6E+02                                                            |
| Butadiene, 2-methyl-1,3- (isoprene)                        | 78-79-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.9E+05                                                              | 2.0E+05                                                             | 6.1E+04                     | —                            | 3.9E+05                                                             | 2.0E+05                                                            |
| Butanal (butyraldehyde)                                    | 123-72-8  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.1E+03                                                              | 1.1E+03                                                             | 6.1E+04                     | —                            | 2.1E+03                                                             | 1.1E+03                                                            |
| Butane, 2,3-dimethyl-                                      | 79-29-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.9E+05                                                              | 2.0E+05                                                             | 6.1E+04                     | —                            | 3.9E+05                                                             | 2.0E+05                                                            |
| Butanoic acid (butyric acid)                               | 107-92-6  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.8E+02                                                              | 9.3E+01                                                             | 5.1E+05                     | 1.0E+06                      | 1.8E+02                                                             | 9.3E+01                                                            |
| Butanol, 2-                                                | 78-92-2   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.0E+06                                                              | 1.0E+06                                                             | 1.0E+06                     | —                            | 1.0E+06                                                             | 1.0E+06                                                            |
| Butanol, 2-methyl-1-                                       | 137-32-6  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+04                     | —                            | —                                                                   | —                                                                  |
| Butanol, 2-methyl-2-                                       | 75-85-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+04                     | —                            | —                                                                   | —                                                                  |
| Butanol, n-                                                | 71-36-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | —                            | —                                                                   | —                                                                  |
| Butene, 1-                                                 | 106-98-9  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.1E+05                                                              | 5.9E+04                                                             | 6.1E+04                     | —                            | 1.1E+05                                                             | 5.9E+04                                                            |
| Butene, cis-2-                                             | 590-18-1  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.4E+04                                                              | 1.8E+04                                                             | 6.1E+04                     | —                            | 3.4E+04                                                             | 1.8E+04                                                            |
| Butene, trans-2-                                           | 624-64-6  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.4E+04                                                              | 1.8E+04                                                             | 6.1E+04                     | —                            | 3.4E+04                                                             | 1.8E+04                                                            |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.1E+05                                                              | 2.1E+05                                                             | 1.0E+05                     | 2.0E+05                      | 4.1E+05                                                             | 2.1E+05                                                            |
| Butyl acetate                                              | 123-86-4  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.2E+05                                                              | 6.0E+04                                                             | 1.4E+05                     | —                            | 1.2E+05                                                             | 6.0E+04                                                            |
| Butyl acrylate                                             | 141-32-2  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 9.2E+03                     | —                            | —                                                                   | —                                                                  |
| Butyl benzyl phthalate                                     | 85-68-7   | —                                                                    | —                                                                   | 1.5E+04                     | 3.0E+04                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+05                     | 4.1E+05                      | —                                                                   | —                                                                  |
| Butyl ether, n- (dibutyl ether)                            | 142-96-1  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | —                            | —                                                                   | —                                                                  |
| Butyl methacrylate                                         | 97-88-1   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 9.2E+04                     | 3.7E+04                      | —                                                                   | —                                                                  |
| Butylate                                                   | 2008-41-5 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+04                     | 1.0E+05                      | —                                                                   | —                                                                  |
| Butylbenzene, n-                                           | 104-51-8  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+04                     | 1.0E+05                      | —                                                                   | —                                                                  |
| Butylbenzene, sec-                                         | 135-98-8  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                     | —                            | —                                                                   | —                                                                  |
| Butylbenzene, tert-                                        | 98-06-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                     | —                            | —                                                                   | —                                                                  |
| Cacodylic acid                                             | 75-60-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+03                     | 6.1E+03                      | —                                                                   | —                                                                  |
| Cadmium                                                    | 7440-43-9 | 7.7E+04                                                              | 4.0E+04                                                             | —                           | —                            | —                                                                   | —                                                                  | 1.5E+04                                                              | 7.7E+03                                                             | 1.0E+03                     | 5.1E+03                      | —                                                                   | —                                                                  |
| Calcium*                                                   | 7440-70-2 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Caprolactam                                                | 105-60-2  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+05                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Captan                                                     | 133-06-2  | —                                                                    | —                                                                   | 8.2E+03                     | 1.6E+04                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.3E+05                     | 2.7E+05                      | —                                                                   | —                                                                  |
| Carbaryl                                                   | 63-25-2   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Carbazole                                                  | 86-74-8   | —                                                                    | —                                                                   | 1.4E+03                     | 2.9E+03                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | Carcinogenic                                                         |                                                                     |                             |                              |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
|-------------------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                       |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) |
| Carbofuran                                            | 1563-66-2  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+03                     | 1.0E+04                      | —                                                                   | —                                                                  |
| Carbon disulfide                                      | 75-15-0    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.5E+04                                                              | 7.7E+03                                                             | 1.0E+05                     | —                            | 1.5E+04                                                             | 7.7E+03                                                            |
| Carbon tetrachloride                                  | 56-23-5    | 1.7E+02                                                              | 8.6E+01                                                             | 4.1E+02                     | —                            | 1.7E+02                                                             | 8.6E+01                                                            | 3.4E+03                                                              | 1.8E+03                                                             | 4.1E+03                     | —                            | 3.4E+03                                                             | 1.8E+03                                                            |
| Carbophenothion                                       | 786-19-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.3E+04                     | 2.7E+04                      | —                                                                   | —                                                                  |
| Carbosulfan                                           | 55285-14-8 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+04                     | 2.0E+04                      | —                                                                   | —                                                                  |
| Carboxin                                              | 5234-68-4  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Chloral                                               | 75-87-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | —                            | —                                                                   | —                                                                  |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)    | 302-17-0   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid) | 133-90-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.5E+04                     | 3.1E+04                      | —                                                                   | —                                                                  |
| Chlordane (technical)                                 | 12789-03-6 | 2.1E+03                                                              | 1.1E+03                                                             | 8.2E+01                     | 4.1E+02                      | 2.1E+03                                                             | 1.1E+03                                                            | 5.2E+03                                                              | 2.7E+03                                                             | 5.1E+02                     | 2.6E+03                      | 5.2E+03                                                             | 2.7E+03                                                            |
| Chlordane, cis- (alpha chlordane)                     | 5103-71-9  | 6.8E+03                                                              | 3.5E+03                                                             | 8.2E+01                     | 1.6E+02                      | 6.9E+03                                                             | 3.5E+03                                                            | 1.7E+04                                                              | 8.7E+03                                                             | 5.1E+02                     | 1.0E+03                      | 1.7E+04                                                             | 8.9E+03                                                            |
| Chlordane, trans- (gamma chlordane)                   | 5103-74-2  | 1.6E+03                                                              | 8.3E+02                                                             | 8.2E+01                     | 1.6E+02                      | 1.6E+03                                                             | 8.4E+02                                                            | 4.0E+03                                                              | 2.1E+03                                                             | 5.1E+02                     | 1.0E+03                      | 4.1E+03                                                             | 2.1E+03                                                            |
| Chlorfenvinphos                                       | 470-90-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.3E+01                                                              | 2.2E+01                                                             | 7.2E+02                     | 1.4E+03                      | 4.3E+01                                                             | 2.2E+01                                                            |
| Chloride*                                             | 16887-00-6 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Chlorine                                              | 7782-50-5  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.9E+02                                                              | 9.6E+01                                                             | 1.0E+05                     | 4.1E+05                      | 1.9E+02                                                             | 9.6E+01                                                            |
| Chloro-1,3-butadiene, 2-                              | 126-99-8   | 2.0E+00                                                              | 1.0E+00                                                             | —                           | —                            | 2.0E+00                                                             | 1.0E+00                                                            | 4.3E+02                                                              | 2.2E+02                                                             | —                           | —                            | 4.3E+02                                                             | 2.2E+02                                                            |
| Chloro-2-propanol, 1-                                 | 127-00-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+04                     | —                            | —                                                                   | —                                                                  |
| Chloro-3-methylphenol, 4-                             | 59-50-7    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+03                     | 1.0E+04                      | —                                                                   | —                                                                  |
| Chloroaniline, p-                                     | 106-47-8   | —                                                                    | —                                                                   | 1.4E+02                     | 2.9E+02                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+03                     | 8.2E+03                      | —                                                                   | —                                                                  |
| Chlorobenzene                                         | 108-90-7   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.1E+03                                                              | 5.5E+02                                                             | 2.0E+04                     | —                            | 1.1E+03                                                             | 5.5E+02                                                            |
| Chlorobenzilate                                       | 510-15-6   | 5.9E+02                                                              | 3.0E+02                                                             | 1.1E+02                     | 2.1E+02                      | 5.9E+02                                                             | 3.0E+02                                                            | —                                                                    | —                                                                   | 2.0E+04                     | 4.1E+04                      | —                                                                   | —                                                                  |
| Chlorobromomethane (bromochloromethane)               | 74-97-5    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                     | —                            | —                                                                   | —                                                                  |
| Chlorodifluoromethane                                 | 75-45-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.0E+06                                                              | 5.5E+05                                                             | —                           | —                            | 1.0E+06                                                             | 5.5E+05                                                            |
| Chloroethane (ethyl chloride)                         | 75-00-3    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.1E+05                                                              | 1.1E+05                                                             | 4.1E+05                     | —                            | 2.1E+05                                                             | 1.1E+05                                                            |
| Chloroethanol, 2-                                     | 107-07-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+04                     | —                            | —                                                                   | —                                                                  |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether)     | 110-75-8   | —                                                                    | —                                                                   | 2.6E+01                     | —                            | —                                                                   | —                                                                  | 6.4E+00                                                              | 3.3E+00                                                             | 2.0E+03                     | —                            | 6.4E+00                                                             | 3.3E+00                                                            |
| Chloroform                                            | 67-66-3    | 2.6E+01                                                              | 1.3E+01                                                             | —                           | —                            | 2.6E+01                                                             | 1.3E+01                                                            | 2.1E+03                                                              | 1.1E+03                                                             | 1.0E+04                     | —                            | 2.1E+03                                                             | 1.1E+03                                                            |
| Chlorohexane, 1-                                      | 544-10-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.1E+04                                                              | 1.1E+04                                                             | 4.1E+04                     | —                            | 2.1E+04                                                             | 1.1E+04                                                            |
| Chloromethane (methyl chloride)                       | 74-87-3    | 3.3E+02                                                              | 1.7E+02                                                             | 2.2E+03                     | —                            | 3.3E+02                                                             | 1.7E+02                                                            | 1.9E+03                                                              | 9.9E+02                                                             | 3.7E+03                     | —                            | 1.9E+03                                                             | 9.9E+02                                                            |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-)     | 90-13-1    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+04                     | 1.3E+05                      | —                                                                   | —                                                                  |
| Chloronaphthalene, 2- (chloronaphthalene, beta)       | 91-58-7    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+04                     | 1.3E+05                      | —                                                                   | —                                                                  |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)      | 100-00-5   | —                                                                    | —                                                                   | 4.5E+03                     | 9.1E+03                      | —                                                                   | —                                                                  | 8.8E+01                                                              | 4.5E+01                                                             | 1.0E+03                     | 2.0E+03                      | 8.8E+01                                                             | 4.5E+01                                                            |
| Chlorophenol, 2-                                      | 95-57-8    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+03                     | —                            | —                                                                   | —                                                                  |
| Chlorophenol, 3-                                      | 108-43-0   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+03                     | 1.0E+04                      | —                                                                   | —                                                                  |
| Chlorophenol, 4-                                      | 106-48-9   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+03                     | 1.0E+04                      | —                                                                   | —                                                                  |
| Chlorophenyl phenylether, 4-                          | 7005-72-3  | 4.2E+00                                                              | 2.2E+00                                                             | 1.9E+00                     | 3.8E+00                      | 4.2E+00                                                             | 2.2E+00                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Chloropropane, 2-                                     | 75-29-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.1E+03                                                              | 1.1E+03                                                             | 3.1E+04                     | —                            | 2.1E+03                                                             | 1.1E+03                                                            |
| Chlorothalonil                                        | 1897-45-6  | —                                                                    | —                                                                   | 2.6E+03                     | 5.2E+03                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.5E+04                     | 3.1E+04                      | —                                                                   | —                                                                  |
| Chlorotoluene, o- (2-chlorotoluene)                   | 95-49-8    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.8E+04                                                              | 9.5E+03                                                             | 2.0E+04                     | 4.1E+04                      | 1.8E+04                                                             | 9.5E+03                                                            |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | Carcinogenic                                                                |                                                                            |                                                |                                                 |                                                                                         |                                                                                        | Noncarcinogenic                                                             |                                                                               |                                                |                                                 |                                                                                         |                                                                                        |
|---------------------------------------------------|------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                                   |            | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30<br>acre source<br>area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Chlorotoluene, p- (4-chlorotoluene)               | 106-43-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Chlorpyrifos                                      | 2921-88-2  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Chromium (III)                                    | 16065-83-1 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.9E+05                                                                     | 9.8E+04                                                                       | 1.0E+06                                        | 4.0E+05                                         | —                                                                                       | —                                                                                      |
| Chromium (total)                                  | 7440-47-3  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.9E+05                                                                     | 9.8E+04                                                                       | 1.0E+06                                        | 4.0E+05                                         | —                                                                                       | —                                                                                      |
| Chromium (VI)                                     | 18540-29-9 | 1.6E+04                                                                     | 8.5E+03                                                                    | —                                              | —                                               | —                                                                                       | —                                                                                      | 3.0E+05                                                                     | 1.5E+05                                                                       | 3.2E+03                                        | 1.5E+03                                         | —                                                                                       | —                                                                                      |
| Chrysene                                          | 218-01-9   | 1.0E+06                                                                     | 7.3E+05                                                                    | 2.9E+04                                        | 4.4E+04                                         | 1.0E+06                                                                                 | 7.5E+05                                                                                | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Cobalt                                            | 7440-48-4  | 6.3E+03                                                                     | 3.3E+03                                                                    | —                                              | —                                               | —                                                                                       | —                                                                                      | 8.5E+04                                                                     | 4.4E+04                                                                       | 1.0E+04                                        | 2.0E+05                                         | —                                                                                       | —                                                                                      |
| Copolymer acrylamide                              | 69418-26-4 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+02                                        | 4.1E+02                                         | —                                                                                       | —                                                                                      |
| Copper                                            | 7440-50-8  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 9.9E+04                                        | 1.0E+06                                         | —                                                                                       | —                                                                                      |
| Coronene                                          | 191-07-1   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+03                                        | 4.1E+03                                         | —                                                                                       | —                                                                                      |
| Coumaphos                                         | 56-72-4    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 7.2E+03                                        | 1.4E+04                                         | —                                                                                       | —                                                                                      |
| Cresol                                            | 1319-77-3  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 5.1E+04                                        | 1.0E+05                                         | —                                                                                       | —                                                                                      |
| Cresol, m- (3-methylphenol)                       | 108-39-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 5.1E+04                                        | 1.0E+05                                         | —                                                                                       | —                                                                                      |
| Cresol, o- (2-methylphenol)                       | 95-48-7    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 5.1E+04                                        | 1.0E+05                                         | —                                                                                       | —                                                                                      |
| Cresol, p- (4-methylphenol)                       | 106-44-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 5.1E+03                                        | 1.0E+04                                         | —                                                                                       | —                                                                                      |
| Crotonaldehyde                                    | 123-73-9   | —                                                                           | —                                                                          | 1.5E+01                                        | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+03                                        | —                                               | —                                                                                       | —                                                                                      |
| Cumene (isopropylbenzene)                         | 98-82-8    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.3E+04                                                                     | 6.7E+03                                                                       | 1.0E+05                                        | —                                               | 1.3E+04                                                                                 | 6.7E+03                                                                                |
| Cyanazine                                         | 21725-46-2 | —                                                                           | —                                                                          | 3.4E+01                                        | 6.8E+01                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+03                                        | 4.1E+03                                         | —                                                                                       | —                                                                                      |
| Cyanide                                           | 57-12-5    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.0E+03                                                                     | 5.2E+02                                                                       | 6.1E+02                                        | 1.2E+04                                         | 1.0E+03                                                                                 | 5.2E+02                                                                                |
| Cyanogen                                          | 460-19-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.7E+01                                                                     | 8.8E+00                                                                       | 1.0E+03                                        | —                                               | 1.7E+01                                                                                 | 8.8E+00                                                                                |
| Cycloate                                          | 1134-23-2  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 5.6E+04                                        | 1.1E+05                                         | —                                                                                       | —                                                                                      |
| Cyclohexane                                       | 110-82-7   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.3E+05                                                                     | 6.6E+04                                                                       | 1.0E+06                                        | —                                               | 1.3E+05                                                                                 | 6.6E+04                                                                                |
| Cyclohexanol                                      | 108-93-0   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+06                                        | 1.0E+06                                         | —                                                                                       | —                                                                                      |
| Cyclohexanone                                     | 108-94-1   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 4.9E+04                                                                     | 2.5E+04                                                                       | 1.0E+06                                        | —                                               | 4.9E+04                                                                                 | 2.5E+04                                                                                |
| Cyclohexene, 1-methanol-3-                        | 1679-51-2  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+04                                        | 4.1E+04                                         | —                                                                                       | —                                                                                      |
| Cyclohexene, 4-vinyl-1-                           | 100-40-3   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 7.1E+03                                                                     | 3.6E+03                                                                       | 2.2E+04                                        | —                                               | 7.1E+03                                                                                 | 3.6E+03                                                                                |
| Cyclopentane                                      | 287-92-3   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 5.2E+05                                                                     | 2.7E+05                                                                       | 6.1E+04                                        | —                                               | 5.2E+05                                                                                 | 2.7E+05                                                                                |
| Cyclopentane, methyl-                             | 96-37-7    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.1E+04                                                                     | 1.1E+04                                                                       | 1.0E+05                                        | —                                               | 2.1E+04                                                                                 | 1.1E+04                                                                                |
| Cyclopentene                                      | 142-29-0   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+06                                        | —                                               | —                                                                                       | —                                                                                      |
| Cyclotetramethylenetetranitramine (HMX)           | 2691-41-0  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 5.1E+04                                        | 1.5E+04                                         | —                                                                                       | —                                                                                      |
| Cyclotrimethylenetrinitramine (RDX)               | 121-82-4   | —                                                                           | —                                                                          | 3.6E+02                                        | 7.2E+02                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 4.1E+03                                        | 8.2E+03                                         | —                                                                                       | —                                                                                      |
| Cymene (isopropyltoluene)                         | 99-87-6    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+05                                        | —                                               | —                                                                                       | —                                                                                      |
| Cymoxanil                                         | 57966-95-7 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.3E+04                                        | 2.7E+04                                         | —                                                                                       | —                                                                                      |
| Dacthal (DCPA)                                    | 1861-32-1  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+04                                        | 2.0E+04                                         | —                                                                                       | —                                                                                      |
| Dalapon, sodium salt (2,2-dichloropropanoic acid) | 75-99-0    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+04                                        | 6.1E+04                                         | —                                                                                       | —                                                                                      |
| DDD                                               | 72-54-8    | —                                                                           | —                                                                          | 1.2E+02                                        | 7.9E+02                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| DDE                                               | 72-55-9    | —                                                                           | —                                                                          | 8.4E+01                                        | 5.6E+02                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| DDT                                               | 50-29-3    | 2.0E+03                                                                     | 1.0E+03                                                                    | 8.4E+01                                        | 5.6E+02                                         | 2.0E+03                                                                                 | 1.0E+03                                                                                | —                                                                           | —                                                                             | 5.1E+02                                        | 3.4E+03                                         | —                                                                                       | —                                                                                      |
| Demeton                                           | 8065-48-3  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 4.1E+01                                        | 8.2E+01                                         | —                                                                                       | —                                                                                      |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | Carcinogenic                                                                |                                                                            |                                                |                                                 |                                                                                         |                                                                                        | Noncarcinogenic                                                             |                                                                               |                                                |                                                 |                                                                                         |                                                                                        |
|----------------------------------------------------|------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                                    |            | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30<br>acre source<br>area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Desethylatrazine                                   | 6190-65-4  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.6E+04                                        | 7.2E+04                                         | —                                                                                       | —                                                                                      |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone) | 123-42-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 4.1E+04                                        | 8.2E+04                                         | —                                                                                       | —                                                                                      |
| Diallate                                           | 2303-16-4  | —                                                                           | —                                                                          | 4.7E+02                                        | 9.4E+02                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Diazinon                                           | 333-41-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 9.1E+01                                                                     | 4.7E+01                                                                       | 9.2E+02                                        | 1.8E+03                                         | 9.1E+01                                                                                 | 4.7E+01                                                                                |
| Dibenz(a,h)acridine                                | 226-36-8   | 2.4E+04                                                                     | 1.2E+04                                                                    | 2.4E+01                                        | 4.8E+01                                         | 2.6E+04                                                                                 | 1.3E+04                                                                                | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Dibenz(a,j)acridine                                | 224-42-0   | 3.3E+04                                                                     | 1.7E+04                                                                    | 3.9E+01                                        | 6.0E+01                                         | 3.5E+04                                                                                 | 1.8E+04                                                                                | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Dibenz-a,h-anthracene                              | 53-70-3    | 4.5E+03                                                                     | 2.3E+03                                                                    | 2.9E+01                                        | 4.4E+01                                         | 4.8E+03                                                                                 | 2.5E+03                                                                                | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Dibenzo(a,e)pyrene                                 | 192-65-4   | 9.5E+03                                                                     | 4.9E+03                                                                    | 3.9E+00                                        | 7.8E+00                                         | 1.2E+04                                                                                 | 6.2E+03                                                                                | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Dibenzo(a,h)pyrene                                 | 189-64-0   | 9.2E+02                                                                     | 4.7E+02                                                                    | 3.9E-01                                        | 7.8E-01                                         | 1.2E+03                                                                                 | 6.0E+02                                                                                | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Dibenzo(a,i)pyrene                                 | 189-55-9   | 9.2E+02                                                                     | 4.7E+02                                                                    | 3.9E-01                                        | 7.8E-01                                         | 1.2E+03                                                                                 | 6.0E+02                                                                                | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Dibenzofuran                                       | 132-64-9   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 4.1E+03                                        | 8.2E+03                                         | —                                                                                       | —                                                                                      |
| Dibenzothiophene                                   | 132-65-0   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Dibromo-3-chloropropane, 1,2-                      | 96-12-8    | 2.6E-01                                                                     | 1.4E-01                                                                    | 3.6E+01                                        | 7.2E+01                                         | 2.6E-01                                                                                 | 1.4E-01                                                                                | 1.1E+01                                                                     | 5.8E+00                                                                       | 2.0E+02                                        | 4.1E+02                                         | 1.1E+01                                                                                 | 5.8E+00                                                                                |
| Dibromochloromethane (chlorodibromomethane)        | 124-48-1   | —                                                                           | —                                                                          | 3.4E+02                                        | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Dibromofluoromethane                               | 1868-53-7  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+05                                        | —                                               | —                                                                                       | —                                                                                      |
| Dicamba                                            | 1918-00-9  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+04                                        | 6.1E+04                                         | —                                                                                       | —                                                                                      |
| Dichlormid                                         | 37764-25-3 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.6E+04                                        | 5.1E+04                                         | —                                                                                       | —                                                                                      |
| Dichloro-2-butene, 1,4-                            | 764-41-0   | 3.3E-01                                                                     | 1.7E-01                                                                    | —                                              | —                                               | 3.3E-01                                                                                 | 1.7E-01                                                                                | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Dichloro-2-butene, 1,4- trans                      | 110-57-6   | 3.4E-01                                                                     | 1.8E-01                                                                    | —                                              | —                                               | 3.4E-01                                                                                 | 1.8E-01                                                                                | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Dichlorobenzene, 1,2-                              | 95-50-1    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.1E+03                                                                     | 5.7E+02                                                                       | 9.2E+04                                        | —                                               | 1.1E+03                                                                                 | 5.7E+02                                                                                |
| Dichlorobenzene, 1,3-                              | 541-73-1   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.7E+02                                                                     | 8.8E+01                                                                       | 3.1E+04                                        | —                                               | 1.7E+02                                                                                 | 8.8E+01                                                                                |
| Dichlorobenzene, 1,4-                              | 106-46-7   | —                                                                           | —                                                                          | 1.2E+03                                        | —                                               | —                                                                                       | —                                                                                      | 1.6E+04                                                                     | 8.5E+03                                                                       | —                                              | —                                               | 1.6E+04                                                                                 | 8.5E+03                                                                                |
| Dichlorobenzidine, 3,3-                            | 91-94-1    | —                                                                           | —                                                                          | 6.4E+01                                        | 1.3E+02                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Dichlorobutane, 2,3-                               | 7581-97-7  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.5E+02                                                                     | 7.7E+01                                                                       | 1.0E+04                                        | —                                               | 1.5E+02                                                                                 | 7.7E+01                                                                                |
| Dichlorodifluoromethane                            | 75-71-8    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.1E+03                                                                     | 1.1E+03                                                                       | 2.0E+05                                        | —                                               | 2.1E+03                                                                                 | 1.1E+03                                                                                |
| Dichloroethane, 1,1-                               | 75-34-3    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 5.2E+04                                                                     | 2.7E+04                                                                       | 2.0E+05                                        | —                                               | 5.2E+04                                                                                 | 2.7E+04                                                                                |
| Dichloroethane, 1,2-                               | 107-06-2   | 1.8E+02                                                                     | 9.1E+01                                                                    | 3.1E+02                                        | —                                               | 1.8E+02                                                                                 | 9.1E+01                                                                                | 9.5E+02                                                                     | 4.9E+02                                                                       | 8.0E+04                                        | —                                               | 9.5E+02                                                                                 | 4.9E+02                                                                                |
| Dichloroethylene, 1,1-                             | 75-35-4    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 7.3E+03                                                                     | 3.8E+03                                                                       | 5.1E+04                                        | —                                               | 7.3E+03                                                                                 | 3.8E+03                                                                                |
| Dichloroethylene, cis-1,2-                         | 156-59-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.3E+03                                                                     | 6.6E+02                                                                       | 2.0E+03                                        | —                                               | 1.3E+03                                                                                 | 6.6E+02                                                                                |
| Dichloroethylene, trans-1,2                        | 156-60-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.3E+03                                                                     | 6.6E+02                                                                       | 2.0E+04                                        | —                                               | 1.3E+03                                                                                 | 6.6E+02                                                                                |
| Dichlorofluoromethane                              | 75-43-4    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+05                                        | —                                               | —                                                                                       | —                                                                                      |
| Dichlorophenol, 2,3-                               | 576-24-9   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Dichlorophenol, 2,4-                               | 120-83-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Dichlorophenol, 2,5-                               | 583-78-8   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Dichlorophenol, 2,6-                               | 87-65-0    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 1.0E+03                                        | 2.0E+03                                         | —                                                                                       | —                                                                                      |
| Dichlorophenol, 3,4-                               | 95-77-2    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Dichlorophenol, 3,5-                               | 591-35-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)    | 94-82-6    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 8.2E+03                                        | 1.6E+04                                         | —                                                                                       | —                                                                                      |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)           | 94-75-7    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                             | 2.0E+05                                        | 8.2E+05                                         | —                                                                                       | —                                                                                      |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | Carcinogenic                                                         |                                                                     |                             |                              |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
|-------------------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                       |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid) | 120-36-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+04                     | 2.0E+04                      | —                                                                   | —                                                                  |
| Dichloropropane, 1,2-                                 | 78-87-5    | 6.5E+02                                                              | 3.4E+02                                                             | 7.7E+02                     | —                            | 6.5E+02                                                             | 3.4E+02                                                            | 8.6E+01                                                              | 4.4E+01                                                             | 1.3E+05                     | —                            | 8.6E+01                                                             | 4.4E+01                                                            |
| Dichloropropane, 1,3-                                 | 142-28-9   | 1.5E+02                                                              | 7.7E+01                                                             | 2.9E+02                     | —                            | 1.5E+02                                                             | 7.7E+01                                                            | 4.3E+02                                                              | 2.2E+02                                                             | 2.0E+04                     | —                            | 4.3E+02                                                             | 2.2E+02                                                            |
| Dichloropropane, 2,2-                                 | 594-20-7   | —                                                                    | —                                                                   | 4.2E+02                     | —                            | —                                                                   | —                                                                  | 8.6E+01                                                              | 4.4E+01                                                             | 9.2E+04                     | —                            | 8.6E+01                                                             | 4.4E+01                                                            |
| Dichloropropanol, 2,3-                                | 616-23-9   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+03                     | 6.1E+03                      | —                                                                   | —                                                                  |
| Dichloropropene, 1,1-                                 | 563-58-6   | 1.5E+02                                                              | 7.7E+01                                                             | 2.9E+02                     | —                            | 1.5E+02                                                             | 7.7E+01                                                            | 4.3E+02                                                              | 2.2E+02                                                             | 3.1E+04                     | —                            | 4.3E+02                                                             | 2.2E+02                                                            |
| Dichloropropene, 1,3- (mixed isomers)                 | 542-75-6   | 1.5E+02                                                              | 7.7E+01                                                             | 2.9E+02                     | —                            | 1.5E+02                                                             | 7.7E+01                                                            | 4.3E+02                                                              | 2.2E+02                                                             | 3.1E+04                     | —                            | 4.3E+02                                                             | 2.2E+02                                                            |
| Dichloropropene, cis 1,3-                             | 10061-01-5 | —                                                                    | —                                                                   | 5.3E+01                     | —                            | —                                                                   | —                                                                  | 4.3E+02                                                              | 2.2E+02                                                             | 1.0E+02                     | —                            | 4.3E+02                                                             | 2.2E+02                                                            |
| Dichloropropene, trans 1,3-                           | 10061-02-6 | 1.5E+02                                                              | 7.7E+01                                                             | 2.9E+02                     | —                            | 1.5E+02                                                             | 7.7E+01                                                            | 4.3E+02                                                              | 2.2E+02                                                             | 3.1E+04                     | —                            | 4.3E+02                                                             | 2.2E+02                                                            |
| Dichlorvos                                            | 62-73-7    | —                                                                    | —                                                                   | 9.9E+01                     | 2.0E+02                      | —                                                                   | —                                                                  | 4.8E+05                                                              | 2.5E+05                                                             | 5.1E+02                     | 1.0E+03                      | 1.0E+06                                                             | 8.7E+05                                                            |
| Dicrotophos (bidrin)                                  | 141-66-2   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+02                     | 2.0E+02                      | —                                                                   | —                                                                  |
| Dicyclopentadiene                                     | 77-73-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+04                     | —                            | —                                                                   | —                                                                  |
| Dieldrin                                              | 60-57-1    | 5.3E+01                                                              | 2.7E+01                                                             | 1.8E+00                     | 3.6E+00                      | 5.3E+01                                                             | 2.7E+01                                                            | —                                                                    | —                                                                   | 5.1E+01                     | 1.0E+02                      | —                                                                   | —                                                                  |
| Diethanolamine                                        | 111-42-2   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.9E+03                                                              | 2.5E+03                                                             | 5.1E+02                     | 1.0E+03                      | 4.9E+03                                                             | 2.5E+03                                                            |
| Diethyldithiocarbamate, sodium salt                   | 148-18-5   | —                                                                    | —                                                                   | 1.1E+02                     | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+04                     | —                            | —                                                                   | —                                                                  |
| Diethyl phthalate                                     | 84-66-2    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+05                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Diethylene glycol                                     | 111-46-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Diethylene glycol monobutyl ether                     | 112-34-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.8E+01                                                              | 1.5E+01                                                             | 3.1E+04                     | 6.1E+04                      | 2.8E+01                                                             | 1.5E+01                                                            |
| Diethylhexyl adipate                                  | 103-23-1   | —                                                                    | —                                                                   | 2.4E+04                     | 4.8E+04                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 6.1E+05                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Diethylstilbestrol                                    | 56-53-1    | —                                                                    | —                                                                   | 6.1E-03                     | 1.2E-02                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)           | 107-39-1   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.3E+03                                                              | 2.2E+03                                                             | 6.1E+04                     | —                            | 4.3E+03                                                             | 2.2E+03                                                            |
| Diisopropylbenzene, p-                                | 100-18-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+04                     | 2.0E+04                      | —                                                                   | —                                                                  |
| Diisopropyl ether (2,2'-oxybis-propane)               | 108-20-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.5E+04                                                              | 7.7E+03                                                             | 1.0E+05                     | —                            | 1.5E+04                                                             | 7.7E+03                                                            |
| Dimethenamid                                          | 87674-68-8 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.5E+04                     | 3.1E+04                      | —                                                                   | —                                                                  |
| Dimethoate                                            | 60-51-5    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+02                     | 4.1E+02                      | —                                                                   | —                                                                  |
| Dimethoxybenzidine, 3,3'-                             | 119-90-4   | —                                                                    | —                                                                   | 2.0E+03                     | 4.1E+03                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Dimethyl-2-nitrobenzene, 1,3-                         | 81-20-9    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.8E+03                                                              | 2.0E+03                                                             | 2.0E+03                     | 4.1E+03                      | 3.9E+03                                                             | 2.0E+03                                                            |
| Dimethyl-3-nitrobenzene, 1,2-                         | 83-41-0    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.4E+03                                                              | 1.7E+03                                                             | 2.0E+03                     | 4.1E+03                      | 3.4E+03                                                             | 1.7E+03                                                            |
| Dimethyl-4-nitrobenzene, 1-2-                         | 99-51-4    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.5E+03                                                              | 1.8E+03                                                             | 2.0E+03                     | 4.1E+03                      | 3.5E+03                                                             | 1.8E+03                                                            |
| Dimethyl-5-nitrobenzene, 1,3-                         | 99-12-7    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.1E+03                                                              | 1.6E+03                                                             | 2.0E+03                     | 4.1E+03                      | 3.1E+03                                                             | 1.6E+03                                                            |
| Dimethylphenethylamine, alpha, alpha-                 | 122-09-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+03                     | 4.1E+03                      | —                                                                   | —                                                                  |
| Dimethyl phenol, 2,4-                                 | 105-67-9   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+04                     | 4.1E+04                      | —                                                                   | —                                                                  |
| Dimethylaminoazobenzene, p-                           | 60-11-7    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+01                     | 2.0E+01                      | —                                                                   | —                                                                  |
| Dimethylbenz-a-anthracene, 7,12-                      | 57-97-6    | 2.1E+02                                                              | 1.1E+02                                                             | 1.1E-01                     | 1.8E-01                      | 2.4E+02                                                             | 1.2E+02                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Dimethylbenzidine, 3,3'-                              | 119-93-7   | —                                                                    | —                                                                   | 2.6E+00                     | 5.2E+00                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Dimethylformamide, N,N-                               | 68-12-2    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.5E+03                                                              | 2.3E+03                                                             | 1.0E+05                     | —                            | 4.5E+03                                                             | 2.3E+03                                                            |
| Dimethylnaphthalene, 1,3-                             | 575-41-7   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                     | 6.3E+04                      | —                                                                   | —                                                                  |
| Dimethylphthalate                                     | 131-11-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+05                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Di-n-butyl phthalate                                  | 84-74-2    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                           | CAS        | Carcinogenic                                                                |                                                                            |                                                |                                                 |                                                                                         |                                                                                        | Noncarcinogenic                                                             |                                                                            |                                                |                                                 |                                                                                         |                                                                                        |
|---------------------------------------------------------------|------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                                               |            | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub> 30<br>acre source<br>area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)        | 534-52-1   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+02                                        | 2.0E+02                                         | —                                                                                       | —                                                                                      |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)                   | 99-65-0    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+02                                        | 2.0E+02                                         | —                                                                                       | —                                                                                      |
| Dinitrobenzene, 1,4-                                          | 100-25-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+02                                        | 2.0E+02                                         | —                                                                                       | —                                                                                      |
| Dinitrophenol, 2,4-                                           | 51-28-5    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+03                                        | 4.1E+03                                         | —                                                                                       | —                                                                                      |
| Dinitrophenol, 2,5-                                           | 329-71-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+03                                        | 4.1E+03                                         | —                                                                                       | —                                                                                      |
| Dinitrotoluene, 2,4-                                          | 121-14-2   | —                                                                           | —                                                                          | 4.2E+01                                        | 8.4E+01                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+03                                        | 4.1E+03                                         | —                                                                                       | —                                                                                      |
| Dinitrotoluene, 2,6-                                          | 606-20-2   | —                                                                           | —                                                                          | 4.2E+01                                        | 8.4E+01                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+03                                        | 2.0E+03                                         | —                                                                                       | —                                                                                      |
| Di-n-octyl phthalate                                          | 117-84-0   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+04                                        | 2.0E+04                                         | —                                                                                       | —                                                                                      |
| Dinoseb                                                       | 88-85-7    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+03                                        | 2.0E+03                                         | —                                                                                       | —                                                                                      |
| Dioxane 1,4-                                                  | 123-91-1   | 3.0E+02                                                                     | 1.6E+02                                                                    | 2.9E+02                                        | —                                               | 3.0E+02                                                                                 | 1.6E+02                                                                                | 5.9E+03                                                                     | 3.1E+03                                                                    | 3.1E+04                                        | —                                               | 5.9E+03                                                                                 | 3.1E+03                                                                                |
| Dioxin (as 2,3,7,8-TCDD toxicity equivalent quotients (TEQs)) | 1746-01-6  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 7.2E-04                                        | 4.8E-03                                         | —                                                                                       | —                                                                                      |
| Diphenyl ether                                                | 101-84-8   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 6.3E+03                                        | 1.3E+04                                         | —                                                                                       | —                                                                                      |
| Diphenylamine                                                 | 122-39-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.6E+04                                        | 5.1E+04                                         | —                                                                                       | —                                                                                      |
| Diphenylhydrazine, 1,2-                                       | 122-66-7   | 2.4E+02                                                                     | 1.2E+02                                                                    | 3.6E+01                                        | 7.2E+01                                         | 2.4E+02                                                                                 | 1.2E+02                                                                                | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Dipropylene glycol                                            | 110-98-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.2E+05                                        | 2.5E+05                                         | —                                                                                       | —                                                                                      |
| Diquat                                                        | 85-00-7    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.2E+03                                        | 4.5E+03                                         | —                                                                                       | —                                                                                      |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)   | 142-73-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+04                                        | 2.0E+04                                         | —                                                                                       | —                                                                                      |
| Disulfoton                                                    | 298-04-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 4.1E+01                                        | 8.2E+01                                         | —                                                                                       | —                                                                                      |
| Diuron                                                        | 330-54-1   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+03                                        | 4.1E+03                                         | —                                                                                       | —                                                                                      |
| Dodecylphenol, 4-                                             | 104-43-8   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+04                                        | 1.0E+05                                         | —                                                                                       | —                                                                                      |
| Endosulfan                                                    | 115-29-7   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 6.1E+03                                        | 1.2E+04                                         | —                                                                                       | —                                                                                      |
| Endosulfan I                                                  | 959-98-8   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+03                                        | 4.1E+03                                         | —                                                                                       | —                                                                                      |
| Endosulfan II                                                 | 33213-65-9 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 6.1E+03                                        | 1.2E+04                                         | —                                                                                       | —                                                                                      |
| Endosulfan sulfate                                            | 1031-07-8  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 6.1E+03                                        | 1.2E+04                                         | —                                                                                       | —                                                                                      |
| Endothall                                                     | 145-73-3   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+04                                        | 4.1E+04                                         | —                                                                                       | —                                                                                      |
| Endrin                                                        | 72-20-8    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+02                                        | 6.1E+02                                         | —                                                                                       | —                                                                                      |
| Endrin aldehyde                                               | 7421-93-4  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+02                                        | 6.1E+02                                         | —                                                                                       | —                                                                                      |
| Endrin ketone                                                 | 53494-70-5 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+02                                        | 6.1E+02                                         | —                                                                                       | —                                                                                      |
| Epichlorohydrin                                               | 106-89-8   | 8.6E+02                                                                     | 4.4E+02                                                                    | 2.9E+03                                        | —                                               | 8.6E+02                                                                                 | 4.4E+02                                                                                | 3.7E+01                                                                     | 1.9E+01                                                                    | 6.1E+03                                        | —                                               | 3.7E+01                                                                                 | 1.9E+01                                                                                |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate)         | 2104-64-5  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+01                                        | 2.0E+01                                         | —                                                                                       | —                                                                                      |
| Esfenvalerate                                                 | 66230-04-4 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+03                                        | 4.1E+03                                         | —                                                                                       | —                                                                                      |
| Ethalfuralin (sonolan)                                        | 55283-68-6 | —                                                                           | —                                                                          | 3.2E+02                                        | 6.4E+02                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 4.1E+04                                        | 8.2E+04                                         | —                                                                                       | —                                                                                      |
| Ethanol                                                       | 64-17-5    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+06                                        | —                                               | —                                                                                       | —                                                                                      |
| Ethanol, 2-amino-                                             | 141-43-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 4.1E+03                                                                     | 2.1E+03                                                                    | 1.7E+03                                        | 3.5E+03                                         | 4.1E+03                                                                                 | 2.1E+03                                                                                |
| Ethanol, 2-(2-aminoethoxy)-                                   | 929-06-6   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+02                                        | 1.0E+03                                         | —                                                                                       | —                                                                                      |
| Ethanol, 2-(2-ethoxyethoxy)-                                  | 111-90-0   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+06                                        | 1.0E+06                                         | —                                                                                       | —                                                                                      |
| Ethanol, 2-(methylamino)-                                     | 109-83-1   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 9.0E+03                                                                     | 4.6E+03                                                                    | 1.6E+04                                        | 3.3E+04                                         | 9.0E+03                                                                                 | 4.6E+03                                                                                |
| Ethion                                                        | 563-12-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+02                                        | 1.0E+03                                         | —                                                                                       | —                                                                                      |
| Ethoprop                                                      | 13194-48-4 | —                                                                           | —                                                                          | 1.0E+03                                        | 2.0E+03                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+02                                        | 2.0E+02                                         | —                                                                                       | —                                                                                      |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                              | CAS        | Carcinogenic                                                         |                                                                     |                             |                              |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
|--------------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                  |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub> 30 acre source area (mg/kg) |
| Ethoxy ethanol, 2-                               | 110-80-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.5E+04                                                              | 1.8E+04                                                             | 9.2E+04                     | —                            | 3.5E+04                                                             | 1.8E+04                                                            |
| Ethyl acetate                                    | 141-78-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 5.1E+03                                                              | 2.6E+03                                                             | 9.2E+05                     | —                            | 5.1E+03                                                             | 2.6E+03                                                            |
| Ethyl acrylate                                   | 140-88-5   | —                                                                    | —                                                                   | 6.0E+02                     | —                            | —                                                                   | —                                                                  | 3.4E+02                                                              | 1.7E+02                                                             | 5.1E+03                     | —                            | 3.4E+02                                                             | 1.7E+02                                                            |
| Ethyl benzene                                    | 100-41-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.1E+04                                                              | 2.1E+04                                                             | 1.0E+05                     | —                            | 4.1E+04                                                             | 2.1E+04                                                            |
| Ethyl dipropylthiocarbamate, S-                  | 759-94-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.6E+04                     | 5.1E+04                      | —                                                                   | —                                                                  |
| Ethyl ether                                      | 60-29-7    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+05                     | —                            | —                                                                   | —                                                                  |
| Ethyl methacrylate                               | 97-63-2    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 9.9E+03                                                              | 5.1E+03                                                             | 9.2E+04                     | —                            | 9.9E+03                                                             | 5.1E+03                                                            |
| Ethyl methanesulfonate                           | 62-50-0    | 2.0E+02                                                              | 1.0E+02                                                             | 2.9E+02                     | 5.8E+02                      | 2.0E+02                                                             | 1.0E+02                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane) | 637-92-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 6.4E+03                                                              | 3.3E+03                                                             | 1.0E+03                     | —                            | 6.4E+03                                                             | 3.3E+03                                                            |
| Ethyl-1-hexanol, 2-                              | 104-76-7   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.5E+05                     | 3.1E+05                      | —                                                                   | —                                                                  |
| Ethyl-2-hexenal, 2-                              | 645-62-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.5E+05                     | —                            | —                                                                   | —                                                                  |
| Ethyl-2-methyl benzene, 1-                       | 611-14-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.2E+04                                                              | 6.1E+03                                                             | 5.1E+04                     | —                            | 1.2E+04                                                             | 6.1E+03                                                            |
| Ethyl-4-methyl benzene, 1-                       | 622-96-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.0E+04                                                              | 5.2E+03                                                             | 5.1E+04                     | —                            | 1.0E+04                                                             | 5.2E+03                                                            |
| Ethylene*                                        | 74-85-1    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Ethylene dibromide (dibromoethane, 1,2- )        | 106-93-4   | 2.2E+01                                                              | 1.1E+01                                                             | 1.4E+01                     | —                            | 2.2E+01                                                             | 1.1E+01                                                            | 2.3E+03                                                              | 1.2E+03                                                             | 9.2E+03                     | —                            | 2.3E+03                                                             | 1.2E+03                                                            |
| Ethylene glycol                                  | 107-21-1   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Ethylene oxide                                   | 75-21-8    | 4.3E+02                                                              | 2.2E+02                                                             | 2.8E+01                     | —                            | 4.3E+02                                                             | 2.2E+02                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Ethylene thiourea                                | 96-45-7    | —                                                                    | —                                                                   | 2.6E+02                     | 5.2E+02                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.2E+01                     | 1.6E+02                      | —                                                                   | —                                                                  |
| Ethylenediamine                                  | 107-15-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 9.2E+04                     | —                            | —                                                                   | —                                                                  |
| Ethylenimine                                     | 151-56-4   | 2.2E-01                                                              | 1.1E-01                                                             | 4.4E-01                     | —                            | 2.2E-01                                                             | 1.1E-01                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Ethylhexyl acrylate, 2-                          | 103-11-7   | —                                                                    | —                                                                   | 6.0E+02                     | 1.2E+03                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Famphur                                          | 52-85-7    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+01                     | 6.1E+01                      | —                                                                   | —                                                                  |
| Fensulfothion                                    | 115-90-2   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+03                     | 2.0E+03                      | —                                                                   | —                                                                  |
| Fenthion                                         | 55-38-9    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 7.2E+01                     | 1.4E+02                      | —                                                                   | —                                                                  |
| Fenuron                                          | 101-42-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 7.2E+04                     | 1.4E+05                      | —                                                                   | —                                                                  |
| Fluoranthene                                     | 206-44-0   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                     | 6.3E+04                      | —                                                                   | —                                                                  |
| Fluorene                                         | 86-73-7    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                     | 6.3E+04                      | —                                                                   | —                                                                  |
| Fluorine (soluble fluoride)                      | 7782-41-4  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.0E+06                                                              | 1.0E+06                                                             | 6.1E+04                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Fluorochloridone                                 | 61213-25-0 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 7.7E+03                     | 1.5E+04                      | —                                                                   | —                                                                  |
| Fonofos                                          | 944-22-9   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+03                     | 4.1E+03                      | —                                                                   | —                                                                  |
| Formaldehyde                                     | 50-00-0    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.4E+03                                                              | 7.1E+02                                                             | 2.0E+05                     | —                            | 1.4E+03                                                             | 7.1E+02                                                            |
| Formic acid                                      | 64-18-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.0E+02                                                              | 1.5E+02                                                             | 9.2E+05                     | —                            | 3.0E+02                                                             | 1.5E+02                                                            |
| Furan                                            | 110-00-9   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+03                     | —                            | —                                                                   | —                                                                  |
| Furfural                                         | 98-01-1    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+03                     | —                            | —                                                                   | —                                                                  |
| Glycidylaldehyde                                 | 765-34-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.1E+02                                                              | 1.1E+02                                                             | 4.1E+02                     | —                            | 2.1E+02                                                             | 1.1E+02                                                            |
| Glyphosate                                       | 1071-83-6  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Heptachlor                                       | 76-44-8    | 1.5E+01                                                              | 7.9E+00                                                             | 6.4E+00                     | 1.3E+01                      | 1.5E+01                                                             | 7.9E+00                                                            | —                                                                    | —                                                                   | 5.1E+02                     | 1.0E+03                      | —                                                                   | —                                                                  |
| Heptachlor epoxide                               | 1024-57-3  | 4.0E+01                                                              | 2.0E+01                                                             | 3.1E+00                     | 6.3E+00                      | 4.0E+01                                                             | 2.1E+01                                                            | —                                                                    | —                                                                   | 1.3E+01                     | 2.7E+01                      | —                                                                   | —                                                                  |
| Heptane, n-                                      | 142-82-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.9E+05                                                              | 9.9E+04                                                             | 6.1E+04                     | —                            | 1.9E+05                                                             | 9.9E+04                                                            |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | Carcinogenic                                                         |                                                                     |                             |                              |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
|---------------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                   |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) |
| Heptanoic acid, n-                                | 111-14-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.7E+02                                                              | 8.8E+01                                                             | 5.1E+05                     | 1.0E+06                      | 1.7E+02                                                             | 8.8E+01                                                            |
| Hexachlorobenzene                                 | 118-74-1   | 3.2E+01                                                              | 1.6E+01                                                             | 1.8E+01                     | 3.6E+01                      | 3.2E+01                                                             | 1.6E+01                                                            | —                                                                    | —                                                                   | 8.2E+02                     | 1.6E+03                      | —                                                                   | —                                                                  |
| Hexachlorobutadiene                               | 87-68-3    | 4.9E+01                                                              | 2.5E+01                                                             | 3.7E+02                     | 7.3E+02                      | 4.9E+01                                                             | 2.5E+01                                                            | —                                                                    | —                                                                   | 1.0E+03                     | 2.0E+03                      | —                                                                   | —                                                                  |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | 2.3E+01                                                              | 1.2E+01                                                             | 4.5E+00                     | 2.3E+01                      | 2.3E+01                                                             | 1.2E+01                                                            | —                                                                    | —                                                                   | 8.2E+03                     | 4.1E+04                      | —                                                                   | —                                                                  |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | 1.2E+02                                                              | 6.2E+01                                                             | 1.6E+01                     | 7.9E+01                      | 1.2E+02                                                             | 6.2E+01                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | 1.7E+02                                                              | 8.7E+01                                                             | 1.6E+01                     | 7.9E+01                      | 1.7E+02                                                             | 8.8E+01                                                            | —                                                                    | —                                                                   | 3.1E+02                     | 1.5E+03                      | —                                                                   | —                                                                  |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | —                                                                    | —                                                                   | 2.2E+01                     | 1.1E+02                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+02                     | 1.5E+03                      | —                                                                   | —                                                                  |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | 1.5E+02                                                              | 7.7E+01                                                             | 1.6E+01                     | 7.9E+01                      | 1.5E+02                                                             | 7.7E+01                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Hexachlorocyclopentadiene                         | 77-47-4    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.0E+01                                                              | 1.0E+01                                                             | 6.1E+03                     | 1.2E+04                      | 2.0E+01                                                             | 1.0E+01                                                            |
| Hexachloroethane                                  | 67-72-1    | —                                                                    | —                                                                   | 7.2E+02                     | 1.4E+03                      | —                                                                   | —                                                                  | 6.9E+03                                                              | 3.6E+03                                                             | 7.2E+02                     | 1.4E+03                      | 6.9E+03                                                             | 3.6E+03                                                            |
| Hexachlorophene                                   | 70-30-4    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+02                     | 6.1E+02                      | —                                                                   | —                                                                  |
| Hexachloropropylene                               | 1888-71-7  | —                                                                    | —                                                                   | 7.2E+02                     | 1.4E+03                      | —                                                                   | —                                                                  | 7.1E+03                                                              | 3.7E+03                                                             | 7.2E+02                     | 1.4E+03                      | 7.1E+03                                                             | 3.7E+03                                                            |
| Hexanal, 2-ethyl-                                 | 123-05-7   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.5E+05                     | 3.1E+05                      | —                                                                   | —                                                                  |
| Hexane, n-                                        | 110-54-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.4E+04                                                              | 7.4E+03                                                             | 6.1E+04                     | —                            | 1.4E+04                                                             | 7.4E+03                                                            |
| Hexanediamine, 1,6-                               | 124-09-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+03                     | 1.0E+04                      | —                                                                   | —                                                                  |
| Hexanedinitrile                                   | 111-69-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.4E+03                                                              | 7.1E+02                                                             | 1.4E+03                     | 2.9E+03                      | 1.4E+03                                                             | 7.1E+02                                                            |
| Hexanediol, 1,6-                                  | 629-11-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.0E+06                                                              | 1.0E+06                                                             | 1.0E+06                     | 1.0E+06                      | 1.0E+06                                                             | 1.0E+06                                                            |
| Hexanoic acid                                     | 142-62-1   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.9E+02                                                              | 9.8E+01                                                             | 6.5E+04                     | 1.3E+05                      | 1.9E+02                                                             | 9.8E+01                                                            |
| Hexanone, 2-                                      | 591-78-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.2E+03                                                              | 5.9E+02                                                             | 5.1E+04                     | —                            | 1.2E+03                                                             | 5.9E+02                                                            |
| Hexazinone                                        | 51235-04-2 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.4E+04                     | 6.7E+04                      | —                                                                   | —                                                                  |
| Hexene, 1-                                        | 592-41-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.4E+03                                                              | 1.2E+03                                                             | 3.4E+05                     | —                            | 2.4E+03                                                             | 1.2E+03                                                            |
| Hexene, cis-2-                                    | 7688-21-3  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.4E+03                                                              | 1.2E+03                                                             | 3.4E+05                     | —                            | 2.4E+03                                                             | 1.2E+03                                                            |
| Hexylene glycol (2-methyl-2,4-pentanediol)        | 107-41-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+05                     | 6.1E+05                      | —                                                                   | —                                                                  |
| Hydrazine                                         | 302-01-2   | 7.8E-01                                                              | 4.0E-01                                                             | 9.5E+00                     | —                            | 7.8E-01                                                             | 4.0E-01                                                            | 4.1E+00                                                              | 2.1E+00                                                             | —                           | —                            | 4.1E+00                                                             | 2.1E+00                                                            |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)    | 1191-25-9  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.3E+02                                                              | 1.2E+02                                                             | 6.5E+04                     | 1.3E+05                      | 2.3E+02                                                             | 1.2E+02                                                            |
| Hydrogen chloride (hydrochloric acid)*            | 7647-01-0  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Hydroquinone                                      | 123-31-9   | —                                                                    | —                                                                   | 4.8E+02                     | 9.5E+02                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                     | 8.2E+04                      | —                                                                   | —                                                                  |
| Indene                                            | 95-13-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.6E+02                                                              | 8.1E+01                                                             | 2.0E+04                     | —                            | 1.6E+02                                                             | 8.1E+01                                                            |
| Indeno-1,2,3-cd-pyrene                            | 193-39-5   | 5.6E+04                                                              | 2.9E+04                                                             | 2.9E+02                     | 4.4E+02                      | 6.2E+04                                                             | 3.2E+04                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Iron*                                             | 7439-89-6  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Isoamyl alcohol                                   | 123-51-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+03                     | —                            | —                                                                   | —                                                                  |
| Isobutyl alcohol                                  | 78-83-1    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+05                     | —                            | —                                                                   | —                                                                  |
| Isobutylene (2-methyl-1-propene)                  | 115-11-7   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.0E+06                                                              | 1.0E+06                                                             | 3.8E+03                     | —                            | 1.0E+06                                                             | 1.0E+06                                                            |
| Isobutyric acid (2-methylpropanoic acid)          | 79-31-2    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+05                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Isodecanol                                        | 25339-17-7 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.6E+03                     | 3.3E+03                      | —                                                                   | —                                                                  |
| Isodrin                                           | 465-73-6   | 2.9E+00                                                              | 1.5E+00                                                             | 1.7E-01                     | 3.4E-01                      | 2.9E+00                                                             | 1.5E+00                                                            | —                                                                    | —                                                                   | 3.1E+00                     | 6.1E+00                      | —                                                                   | —                                                                  |
| Isopentane                                        | 78-78-4    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 5.2E+05                                                              | 2.7E+05                                                             | 6.1E+04                     | —                            | 5.2E+05                                                             | 2.7E+05                                                            |
| Isophorone                                        | 78-59-1    | —                                                                    | —                                                                   | 3.0E+04                     | 6.0E+04                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+05                     | 4.1E+05                      | —                                                                   | —                                                                  |
| Isopropyl acetate                                 | 108-21-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 7.2E+04                     | —                            | —                                                                   | —                                                                  |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | Carcinogenic                                                         |                                                                     |                             |                              |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
|----------------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                    |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Inh</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Inh</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) |
| Isopropyl alcohol                                  | 67-63-0    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.4E+04                                                              | 7.0E+03                                                             | 1.0E+06                     | —                            | 1.4E+04                                                             | 7.0E+03                                                            |
| Isosafrole                                         | 120-58-1   | 1.5E+02                                                              | 7.9E+01                                                             | 1.3E+02                     | 2.6E+02                      | 1.5E+02                                                             | 7.9E+01                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Kelthane (dicofol)                                 | 115-32-2   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 6.1E+03                     | 1.2E+04                      | —                                                                   | —                                                                  |
| Kepone (chlordecone)                               | 143-50-0   | 8.1E+01                                                              | 4.2E+01                                                             | 2.9E+00                     | 5.7E+00                      | 8.2E+01                                                             | 4.2E+01                                                            | —                                                                    | —                                                                   | 3.1E+02                     | 6.1E+02                      | —                                                                   | —                                                                  |
| Lead (inorganic)                                   | 7439-92-1  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Leptophos                                          | 21609-90-5 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.6E+01                                                              | 2.3E+01                                                             | 5.1E+00                     | 1.0E+01                      | 4.7E+01                                                             | 2.4E+01                                                            |
| Limonene, d-*                                      | 5989-27-5  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Lithium                                            | 7439-93-2  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 7.2E+03                     | 1.4E+05                      | —                                                                   | —                                                                  |
| Magnesium*                                         | 7439-95-4  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Malathion                                          | 121-75-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.8E+02                                                              | 1.4E+02                                                             | 2.0E+04                     | 4.1E+04                      | 2.8E+02                                                             | 1.4E+02                                                            |
| Maleic anhydride                                   | 108-31-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Maleic hydrazide                                   | 123-33-1   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+05                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Malononitrile                                      | 109-77-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+02                     | 2.0E+02                      | —                                                                   | —                                                                  |
| Mancozeb                                           | 8018-01-7  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+04                     | 6.1E+04                      | —                                                                   | —                                                                  |
| Manganese                                          | 7439-96-5  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.0E+06                                                              | 5.9E+05                                                             | 1.4E+05                     | 1.7E+05                      | —                                                                   | —                                                                  |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+02                     | 1.0E+03                      | —                                                                   | —                                                                  |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+03                     | 2.0E+03                      | —                                                                   | —                                                                  |
| Mercury (pH = 4.9) <sup>2</sup>                    | 7439-97-6  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 6.4E+00                                                              | 3.3E+00                                                             | 3.1E+02                     | 4.3E+02                      | 6.4E+00                                                             | 3.3E+00                                                            |
| Mercury (pH=6.8) <sup>2</sup>                      | 7439-97-6  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.2E+01                                                              | 1.1E+01                                                             | 3.1E+02                     | 4.3E+02                      | 2.2E+01                                                             | 1.1E+01                                                            |
| Merphos                                            | 150-50-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+01                     | 6.1E+01                      | —                                                                   | —                                                                  |
| Methacrylic acid (2-methyl-2-propenoic acid)       | 79-41-4    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+04                     | —                            | —                                                                   | —                                                                  |
| Methacrylonitrile                                  | 126-98-7   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 8.2E+02                                                              | 4.2E+02                                                             | 5.1E+04                     | —                            | 8.2E+02                                                             | 4.2E+02                                                            |
| Methanol                                           | 67-56-1    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.6E+05                                                              | 2.4E+05                                                             | 1.0E+06                     | —                            | 4.6E+05                                                             | 2.4E+05                                                            |
| Methapyrilene                                      | 91-80-5    | —                                                                    | —                                                                   | 6.1E+00                     | 1.2E+01                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Methomyl                                           | 16752-77-5 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.6E+04                     | 5.1E+04                      | —                                                                   | —                                                                  |
| Methoxychlor                                       | 72-43-5    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+03                     | 1.0E+04                      | —                                                                   | —                                                                  |
| Methoxyethanol, 2-                                 | 109-86-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.3E+02                                                              | 2.2E+02                                                             | 2.8E+04                     | —                            | 4.3E+02                                                             | 2.2E+02                                                            |
| Methyl acetate (acetic acid, methyl ester)         | 79-20-9    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | —                            | —                                                                   | —                                                                  |
| Methyl acrylate                                    | 96-33-3    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.3E+02                                                              | 2.2E+02                                                             | 2.0E+03                     | —                            | 4.3E+02                                                             | 2.2E+02                                                            |
| Methyl amyl ketone (2-heptanone)                   | 110-43-0   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.6E+05                                                              | 8.0E+04                                                             | 5.1E+04                     | —                            | 1.6E+05                                                             | 8.0E+04                                                            |
| Methyl chrysene, 1-                                | 3351-28-8  | 1.0E+06                                                              | 1.0E+06                                                             | 3.9E+03                     | 6.0E+03                      | 1.0E+06                                                             | 1.0E+06                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Methyl chrysene, 2-                                | 3351-32-4  | 1.0E+06                                                              | 1.0E+06                                                             | 3.9E+03                     | 6.0E+03                      | 1.0E+06                                                             | 1.0E+06                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Methyl chrysene, 6-                                | 1705-85-7  | 3.6E+05                                                              | 1.9E+05                                                             | 3.9E+02                     | 6.0E+02                      | 3.9E+05                                                             | 2.0E+05                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Methyl cyclohexane                                 | 108-87-2   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 6.4E+04                                                              | 3.3E+04                                                             | 1.0E+06                     | —                            | 6.4E+04                                                             | 3.3E+04                                                            |
| Methyl ethyl ketone (2-butanone)                   | 78-93-3    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.8E+05                                                              | 1.4E+05                                                             | 6.1E+05                     | —                            | 2.8E+05                                                             | 1.5E+05                                                            |
| Methyl iodide (iodomethane)                        | 74-88-4    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.4E+03                     | —                            | —                                                                   | —                                                                  |
| Methyl isobutyl ketone (4-methyl-2-pentanone)      | 108-10-1   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 8.1E+04                                                              | 4.2E+04                                                             | 8.2E+04                     | —                            | 8.1E+04                                                             | 4.2E+04                                                            |
| Methyl mercury                                     | 22967-92-6 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+02                     | 2.0E+03                      | —                                                                   | —                                                                  |
| Methyl methacrylate                                | 80-62-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.5E+04                                                              | 7.7E+03                                                             | 1.0E+06                     | —                            | 1.5E+04                                                             | 7.7E+03                                                            |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS        | Carcinogenic                                                         |                                                                     |                             |                              |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
|------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                          |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub> 30 acre source area (mg/kg) |
| Methyl methanesulfonate                  | 66-27-3    | 1.9E+02                                                              | 9.7E+01                                                             | 2.9E+02                     | 5.8E+02                      | 1.9E+02                                                             | 9.7E+01                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Methyl parathion                         | 298-00-0   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.6E+02                     | 5.1E+02                      | —                                                                   | —                                                                  |
| Methyl-1-butene, 2-                      | 563-46-2   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.9E+05                                                              | 2.0E+05                                                             | 6.1E+04                     | —                            | 3.9E+05                                                             | 2.0E+05                                                            |
| Methyl-1-propanal, 2- (isobutyraldehyde) | 78-84-2    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+04                     | —                            | —                                                                   | —                                                                  |
| Methyl-2-butene, 2-                      | 513-35-9   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.9E+05                                                              | 2.0E+05                                                             | 6.1E+04                     | —                            | 3.9E+05                                                             | 2.0E+05                                                            |
| Methyl-2-pentenal, 2-                    | 623-36-9   | —                                                                    | —                                                                   | 1.5E+01                     | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Methylcholanthrene, 3-                   | 56-49-5    | 2.5E+03                                                              | 1.3E+03                                                             | 1.3E+00                     | 2.0E+00                      | 3.0E+03                                                             | 1.5E+03                                                            | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Methylene bromide (dibromomethane)       | 74-95-3    | —                                                                    | —                                                                   | 3.8E+03                     | —                            | —                                                                   | —                                                                  | 1.1E+02                                                              | 5.9E+01                                                             | 6.1E+04                     | —                            | 1.1E+02                                                             | 5.9E+01                                                            |
| Methylene chloride (dichloromethane)     | 75-09-2    | 2.1E+04                                                              | 1.1E+04                                                             | 2.9E+05                     | —                            | 2.1E+04                                                             | 1.1E+04                                                            | 2.8E+04                                                              | 1.4E+04                                                             | 2.1E+04                     | —                            | 2.8E+04                                                             | 1.4E+04                                                            |
| Methylene-bis (2-chloroaniline) 4,4'-    | 101-14-4   | 4.5E+03                                                              | 2.3E+03                                                             | 2.9E+02                     | 5.7E+02                      | 4.5E+03                                                             | 2.3E+03                                                            | —                                                                    | —                                                                   | 2.0E+03                     | 4.1E+03                      | —                                                                   | —                                                                  |
| Methylmercury hydroxide                  | 1184-57-2  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+02                     | 2.0E+02                      | —                                                                   | —                                                                  |
| Methylnaphthalene, 1-                    | 90-12-0    | —                                                                    | —                                                                   | 9.9E+02                     | 1.5E+03                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 7.2E+04                     | 1.1E+05                      | —                                                                   | —                                                                  |
| Methylnaphthalene, 2-                    | 91-57-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 4.1E+03                     | 6.3E+03                      | —                                                                   | —                                                                  |
| Methylpyrrolidone, N-                    | 872-50-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+04                     | 4.1E+04                      | —                                                                   | —                                                                  |
| Methylstyrene, alpha-                    | 98-83-9    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 6.8E+02                                                              | 3.5E+02                                                             | 8.5E+03                     | —                            | 6.8E+02                                                             | 3.5E+02                                                            |
| Methyltetrahydrofuran, 2-                | 96-47-9    | 3.2E+02                                                              | 1.6E+02                                                             | 3.8E+03                     | —                            | 3.2E+02                                                             | 1.6E+02                                                            | —                                                                    | —                                                                   | 2.0E+05                     | —                            | —                                                                   | —                                                                  |
| Methyltetrahydropyran, 2-                | 10141-72-7 | 3.7E+02                                                              | 1.9E+02                                                             | 3.8E+03                     | —                            | 3.7E+02                                                             | 1.9E+02                                                            | —                                                                    | —                                                                   | 2.0E+05                     | —                            | —                                                                   | —                                                                  |
| Metolachlor                              | 51218-45-2 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.5E+05                     | 3.1E+05                      | —                                                                   | —                                                                  |
| Metribuzin                               | 21087-64-9 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.6E+04                     | 5.1E+04                      | —                                                                   | —                                                                  |
| Mirex                                    | 2385-85-5  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+02                     | 4.1E+02                      | —                                                                   | —                                                                  |
| Molinate                                 | 2212-67-1  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+03                     | 4.1E+03                      | —                                                                   | —                                                                  |
| Molybdenum                               | 7439-98-7  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+03                     | 3.9E+04                      | —                                                                   | —                                                                  |
| Monocrotophos                            | 2157-98-4  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 6.1E+02                     | 1.2E+03                      | —                                                                   | —                                                                  |
| Morpholine                               | 110-91-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | —                            | —                                                                   | —                                                                  |
| Morpholine, N-butyl-                     | 1005-67-0  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.4E+03                     | 4.7E+03                      | —                                                                   | —                                                                  |
| MTBE (methyl tert-butyl ether)           | 1634-04-4  | 2.3E+03                                                              | 1.2E+03                                                             | 1.6E+04                     | —                            | 2.3E+03                                                             | 1.2E+03                                                            | 6.4E+04                                                              | 3.3E+04                                                             | 1.0E+04                     | —                            | 6.4E+04                                                             | 3.3E+04                                                            |
| Naled                                    | 300-76-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+03                     | 4.1E+03                      | —                                                                   | —                                                                  |
| Naphthalene                              | 91-20-3    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 3.7E+02                                                              | 1.9E+02                                                             | 2.0E+04                     | 3.1E+04                      | 3.7E+02                                                             | 1.9E+02                                                            |
| Naphthoquinone, 1,4-                     | 130-15-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 7.2E+03                     | 1.4E+04                      | —                                                                   | —                                                                  |
| Naphthylamine, 1-                        | 134-32-7   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+04                     | 4.1E+04                      | —                                                                   | —                                                                  |
| Naphthylamine, 2-                        | 91-59-8    | —                                                                    | —                                                                   | 1.6E+01                     | 3.2E+01                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  |
| Napropamide                              | 15299-99-7 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Neopentyl glycol                         | 126-30-7   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+05                     | 6.1E+05                      | —                                                                   | —                                                                  |
| Nickel and compounds                     | 7440-02-0  | 2.2E+05                                                              | 1.1E+05                                                             | —                           | —                            | —                                                                   | —                                                                  | 3.1E+05                                                              | 1.6E+05                                                             | 2.0E+04                     | 1.6E+04                      | —                                                                   | —                                                                  |
| Nitrate-N                                | 14797-55-8 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Nitrite-N                                | 14797-65-0 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Nitroaniline, 2-                         | 88-74-4    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 6.7E+01                                                              | 3.4E+01                                                             | 3.1E+02                     | 6.1E+02                      | 6.7E+01                                                             | 3.4E+01                                                            |
| Nitroaniline, 3-                         | 99-09-2    | —                                                                    | —                                                                   | 7.5E+02                     | 1.5E+03                      | —                                                                   | —                                                                  | 8.4E+01                                                              | 4.3E+01                                                             | 3.1E+02                     | 6.1E+02                      | 8.4E+01                                                             | 4.3E+01                                                            |
| Nitroaniline, 4-                         | 100-01-6   | —                                                                    | —                                                                   | 1.4E+03                     | 2.9E+03                      | —                                                                   | —                                                                  | 1.7E+03                                                              | 8.7E+02                                                             | 4.1E+03                     | 8.2E+03                      | 1.7E+03                                                             | 8.7E+02                                                            |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern            | CAS        | Carcinogenic                                                 |                                                             |                                |                                 |                                                                          |                                                                         | Noncarcinogenic                                              |                                                             |                                |                                 |                                                                          |                                                                         |
|--------------------------------|------------|--------------------------------------------------------------|-------------------------------------------------------------|--------------------------------|---------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|--------------------------------|---------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------|
|                                |            | Air <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Inh</sub> -vp<br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Ing</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Air <sub>Inh</sub> -V <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sub>Inh</sub> -vp<br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Inh</sub> -vp 30<br>acre source<br>area<br>(mg/kg) | Soil <sub>Ing</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Air <sub>Inh</sub> -V <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Inh</sub> -V <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Nitrobenzene                   | 98-95-3    | 1.1E+02                                                      | 5.7E+01                                                     | —                              | —                               | 1.1E+02                                                                  | 5.7E+01                                                                 | 1.6E+02                                                      | 8.1E+01                                                     | 2.0E+03                        | 4.1E+03                         | 1.6E+02                                                                  | 8.1E+01                                                                 |
| Nitroglycerin                  | 55-63-0    | —                                                            | —                                                           | 1.7E+03                        | 3.4E+03                         | —                                                                        | —                                                                       | —                                                            | —                                                           | 1.0E+02                        | 2.0E+02                         | —                                                                        | —                                                                       |
| Nitrophenol, 2-                | 88-75-5    | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 2.0E+03                        | 4.1E+03                         | —                                                                        | —                                                                       |
| Nitrophenol, 3-                | 554-84-7   | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 2.0E+03                        | 4.1E+03                         | —                                                                        | —                                                                       |
| Nitrophenol, 4-                | 100-02-7   | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 2.0E+03                        | 4.1E+03                         | —                                                                        | —                                                                       |
| Nitropropane, 2-               | 79-46-9    | 1.0E+00                                                      | 5.3E-01                                                     | —                              | —                               | 1.0E+00                                                                  | 5.3E-01                                                                 | 4.3E+02                                                      | 2.2E+02                                                     | 1.4E+02                        | —                               | 4.3E+02                                                                  | 2.2E+02                                                                 |
| Nitroquinoline-N-oxide, 4-     | 56-57-5    | 3.2E+00                                                      | 1.6E+00                                                     | 3.0E+00                        | 6.1E+00                         | 3.2E+00                                                                  | 1.6E+00                                                                 | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitrosodiethanolamine          | 1116-54-7  | —                                                            | —                                                           | 1.0E+01                        | 2.0E+01                         | —                                                                        | —                                                                       | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitrosodiethylamine, n-        | 55-18-5    | 1.1E-01                                                      | 5.7E-02                                                     | 1.9E-01                        | —                               | 1.1E-01                                                                  | 5.7E-02                                                                 | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitrosodimethylamine, n-       | 62-75-9    | 3.3E-01                                                      | 1.7E-01                                                     | 5.6E-01                        | —                               | 3.3E-01                                                                  | 1.7E-01                                                                 | 6.6E+00                                                      | 3.4E+00                                                     | 8.2E+00                        | —                               | 6.6E+00                                                                  | 3.4E+00                                                                 |
| Nitrosodi-n-butylamine, n-     | 924-16-3   | 1.7E+00                                                      | 9.0E-01                                                     | 5.3E+00                        | 1.1E+01                         | 1.7E+00                                                                  | 9.0E-01                                                                 | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitrosodi-n-propylamine, n-    | 621-64-7   | —                                                            | —                                                           | 4.1E+00                        | 2.0E+00                         | —                                                                        | —                                                                       | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitrosodiphenylamine           | 86-30-6    | —                                                            | —                                                           | 5.8E+03                        | 2.9E+03                         | —                                                                        | —                                                                       | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitroso-methyl-ethyl-amine, n- | 10595-95-6 | —                                                            | —                                                           | 1.3E+00                        | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitrosomorpholine, N-          | 59-89-2    | 2.9E+00                                                      | 1.5E+00                                                     | 4.3E+00                        | 8.5E+00                         | 2.9E+00                                                                  | 1.5E+00                                                                 | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitroso-n-ethylurea, n-        | 759-73-9   | —                                                            | —                                                           | 2.0E-01                        | 4.1E-01                         | —                                                                        | —                                                                       | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitrosopiperidine, N-          | 100-75-4   | 2.2E+00                                                      | 1.2E+00                                                     | 3.0E+00                        | 6.1E+00                         | 2.2E+00                                                                  | 1.2E+00                                                                 | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitrosopyrrolidine, n-         | 930-55-2   | 9.8E+00                                                      | 5.0E+00                                                     | 1.4E+01                        | 2.7E+01                         | 9.8E+00                                                                  | 5.0E+00                                                                 | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       |
| Nitrotoluene, m-               | 99-08-1    | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 1.0E+04                        | 2.0E+04                         | —                                                                        | —                                                                       |
| Nitrotoluene, o-               | 88-72-2    | —                                                            | —                                                           | 1.3E+02                        | 2.6E+02                         | —                                                                        | —                                                                       | —                                                            | —                                                           | 9.2E+02                        | 1.8E+03                         | —                                                                        | —                                                                       |
| Nitrotoluene, p-               | 99-99-0    | —                                                            | —                                                           | 1.8E+03                        | 3.6E+03                         | —                                                                        | —                                                                       | —                                                            | —                                                           | 4.1E+03                        | 8.2E+03                         | —                                                                        | —                                                                       |
| Nonachlor, cis-                | 5103-73-1  | 2.1E+03                                                      | 1.1E+03                                                     | 8.2E+01                        | 1.6E+02                         | 2.1E+03                                                                  | 1.1E+03                                                                 | 5.2E+03                                                      | 2.7E+03                                                     | 5.1E+02                        | 1.0E+03                         | 5.2E+03                                                                  | 2.7E+03                                                                 |
| Nonachlor, trans-              | 39765-80-5 | 2.1E+03                                                      | 1.1E+03                                                     | 8.2E+01                        | 1.6E+02                         | 2.1E+03                                                                  | 1.1E+03                                                                 | 5.2E+03                                                      | 2.7E+03                                                     | 5.1E+02                        | 1.0E+03                         | 5.2E+03                                                                  | 2.7E+03                                                                 |
| Nonanal                        | 124-19-6   | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 2.0E+05                        | 4.1E+05                         | —                                                                        | —                                                                       |
| Nonene, 1-n                    | 124-11-8   | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 1.0E+05                        | —                               | —                                                                        | —                                                                       |
| Nonylphenol, 4-n-              | 104-40-5   | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 1.0E+05                        | 2.0E+05                         | —                                                                        | —                                                                       |
| Nonylphenol ethoxylate         | 9016-45-9  | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 1.0E+05                        | 2.0E+05                         | —                                                                        | —                                                                       |
| Octamethylpyrophosphoramide    | 152-16-9   | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 2.0E+03                        | 4.1E+03                         | —                                                                        | —                                                                       |
| Octanone                       | 106-68-3   | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | 1.0E+06                                                      | 6.5E+05                                                     | 6.1E+04                        | —                               | 1.0E+06                                                                  | 6.5E+05                                                                 |
| Oxamyl                         | 23135-22-0 | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 2.6E+04                        | 5.1E+04                         | —                                                                        | —                                                                       |
| Oxychlordane                   | 27304-13-8 | 2.1E+03                                                      | 1.1E+03                                                     | 8.2E+01                        | 1.6E+02                         | 2.1E+03                                                                  | 1.1E+03                                                                 | 5.2E+03                                                      | 2.7E+03                                                     | 5.1E+02                        | 1.0E+03                         | 5.2E+03                                                                  | 2.7E+03                                                                 |
| Paraquat                       | 1910-42-5  | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 4.6E+03                        | 9.2E+03                         | —                                                                        | —                                                                       |
| Parathion (ethyl parathion)    | 56-38-2    | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 6.1E+03                        | 1.2E+04                         | —                                                                        | —                                                                       |
| Pebulate                       | 1114-71-2  | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 5.1E+04                        | 1.0E+05                         | —                                                                        | —                                                                       |
| Pendimethalin                  | 40487-42-1 | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 4.1E+04                        | 8.2E+04                         | —                                                                        | —                                                                       |
| Pentachlorobenzene             | 608-93-5   | —                                                            | —                                                           | —                              | —                               | —                                                                        | —                                                                       | —                                                            | —                                                           | 8.2E+02                        | 1.6E+03                         | —                                                                        | —                                                                       |
| Pentachloroethane              | 76-01-7    | 1.6E+02                                                      | 8.1E+01                                                     | 3.2E+02                        | —                               | 1.6E+02                                                                  | 8.1E+01                                                                 | —                                                            | —                                                           | 3.1E+04                        | —                               | —                                                                        | —                                                                       |
| Pentachloronitrobenzene        | 82-68-8    | —                                                            | —                                                           | 1.1E+02                        | 2.2E+02                         | —                                                                        | —                                                                       | —                                                            | —                                                           | 3.1E+03                        | 6.1E+03                         | —                                                                        | —                                                                       |
| Pentachlorophenol              | 87-86-5    | —                                                            | —                                                           | 7.2E+01                        | 5.7E+01                         | —                                                                        | —                                                                       | —                                                            | —                                                           | 5.1E+03                        | 4.1E+03                         | —                                                                        | —                                                                       |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                             | CAS        | Carcinogenic                                                                |                                                                            |                                                |                                                 |                                                                                         |                                                                                        | Noncarcinogenic                                                             |                                                                            |                                                |                                                 |                                                                                         |                                                                                        |
|---------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                                                                 |            | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Pentadiene, 1,3-cis-                                                            | 1574-41-0  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 3.9E+05                                                                     | 2.0E+05                                                                    | 6.1E+04                                        | —                                               | 3.9E+05                                                                                 | 2.0E+05                                                                                |
| Pentadiene, 1,3-trans-                                                          | 2004-70-8  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 3.9E+05                                                                     | 2.0E+05                                                                    | 6.1E+04                                        | —                                               | 3.9E+05                                                                                 | 2.0E+05                                                                                |
| Pentaerythritol tetranitrate (PETN)                                             | 78-11-5    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+03                                        | 4.1E+03                                         | —                                                                                       | —                                                                                      |
| Pentane                                                                         | 109-66-0   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 5.2E+05                                                                     | 2.7E+05                                                                    | 6.1E+04                                        | —                                               | 5.2E+05                                                                                 | 2.7E+05                                                                                |
| Pentane, 2-methyl-                                                              | 107-83-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 3.9E+05                                                                     | 2.0E+05                                                                    | 6.1E+04                                        | —                                               | 3.9E+05                                                                                 | 2.0E+05                                                                                |
| Pentane, 3-methyl-                                                              | 96-14-0    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 3.9E+05                                                                     | 2.0E+05                                                                    | 6.1E+04                                        | —                                               | 3.9E+05                                                                                 | 2.0E+05                                                                                |
| Pentenediol, 1,5-                                                               | 111-29-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.0E+06                                                                     | 1.0E+06                                                                    | 1.0E+06                                        | 1.0E+06                                         | 1.0E+06                                                                                 | 1.0E+06                                                                                |
| Pentanol, 1-                                                                    | 71-41-0    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.4E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Pentanol, 4-methyl-2-                                                           | 108-11-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.7E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Pentanone, 2-                                                                   | 107-87-9   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 4.1E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Pentene, 2-                                                                     | 109-68-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 3.9E+05                                                                     | 2.0E+05                                                                    | 6.1E+04                                        | —                                               | 3.9E+05                                                                                 | 2.0E+05                                                                                |
| Pentyne, 1-                                                                     | 627-19-0   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 3.9E+05                                                                     | 2.0E+05                                                                    | 6.1E+04                                        | —                                               | 3.9E+05                                                                                 | 2.0E+05                                                                                |
| Perchlorate                                                                     | 14797-73-0 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 7.2E+02                                        | 2.9E+03                                         | —                                                                                       | —                                                                                      |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptaecafluoro-1-) [PFOS] | 1763-23-1  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.2E+02                                                                     | 1.1E+02                                                                    | 2.4E+01                                        | 4.7E+01                                         | 2.2E+02                                                                                 | 1.1E+02                                                                                |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDa]              | 2058-94-8  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.2E+01                                        | 2.5E+01                                         | —                                                                                       | —                                                                                      |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                   | 2706-90-3  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+02                                        | 1.0E+03                                         | —                                                                                       | —                                                                                      |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                   | 307-24-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+02                                        | 1.0E+03                                         | —                                                                                       | —                                                                                      |
| Perfluorododecanoic acid (Dodecanoic acid, tricosafafluoro-) [PFDoA]            | 307-55-1   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 9.6E+01                                                                     | 5.0E+01                                                                    | 1.2E+01                                        | 2.5E+01                                         | 9.7E+01                                                                                 | 5.0E+01                                                                                |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                 | 335-67-1   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 3.4E+00                                                                     | 1.7E+00                                                                    | 1.2E+01                                        | 2.5E+01                                         | 3.4E+00                                                                                 | 1.7E+00                                                                                |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                  | 335-76-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.2E+02                                                                     | 6.2E+01                                                                    | 1.5E+01                                        | 3.1E+01                                         | 1.2E+02                                                                                 | 6.2E+01                                                                                |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafluoro-) [PFDS]  | 335-77-3   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.2E+01                                        | 2.5E+01                                         | —                                                                                       | —                                                                                      |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS]   | 355-46-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.6E+01                                                                     | 8.2E+00                                                                    | 3.9E+00                                        | 7.8E+00                                         | 1.6E+01                                                                                 | 8.2E+00                                                                                |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                      | 375-22-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 9.6E+02                                                                     | 4.9E+02                                                                    | 1.0E+03                                        | 2.0E+03                                         | 9.6E+02                                                                                 | 4.9E+02                                                                                |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]       | 375-73-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.6E+03                                                                     | 8.2E+02                                                                    | 1.4E+03                                        | 2.9E+03                                         | 1.6E+03                                                                                 | 8.2E+02                                                                                |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]                | 375-85-9   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.4E+01                                        | 4.7E+01                                         | —                                                                                       | —                                                                                      |
| Perfluorononanoic acid (Nonanoic acid, heptaecafluoro-) [PFNA]                  | 375-95-1   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.4E+01                                                                     | 1.2E+01                                                                    | 1.2E+01                                        | 2.5E+01                                         | 2.4E+01                                                                                 | 1.2E+01                                                                                |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosafluoro-) [PFTeDA]     | 376-06-7   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.2E+01                                        | 2.5E+01                                         | —                                                                                       | —                                                                                      |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosafluoro-) [PFTrDA]         | 72629-94-8 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.2E+01                                        | 2.5E+01                                         | —                                                                                       | —                                                                                      |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptaecafluoro-) [PFOSA]      | 754-91-6   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 8.8E-02                                                                     | 4.5E-02                                                                    | 1.2E+01                                        | 2.5E+01                                         | 8.8E-02                                                                                 | 4.5E-02                                                                                |
| Perylene                                                                        | 198-55-0   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+04                                        | 4.1E+04                                         | —                                                                                       | —                                                                                      |
| Phenacetin                                                                      | 62-44-2    | 1.8E+04                                                                     | 9.4E+03                                                                    | 1.3E+04                                        | 2.6E+04                                         | 1.8E+04                                                                                 | 9.4E+03                                                                                | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Phenanthrene                                                                    | 85-01-8    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+04                                        | 4.7E+04                                         | —                                                                                       | —                                                                                      |
| Phenanthridine                                                                  | 229-87-8   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Phenol                                                                          | 108-95-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.7E+03                                                                     | 1.4E+03                                                                    | 3.1E+05                                        | 6.1E+05                                         | 2.7E+03                                                                                 | 1.4E+03                                                                                |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | Carcinogenic                                                                  |                                                                              |                                |                                 |                                                                              |                                                                             | Noncarcinogenic                                                               |                                                                              |                                |                                 |                                                                              |                                                                             |
|-----------------------------------------------|------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------|---------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------|---------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                               |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Ing</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>30 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30<br>acre source<br>area<br>(mg/kg) | Soil <sub>Ing</sub><br>(mg/kg) | Soil <sub>Derm</sub><br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sup>1</sup> Soil <sub>Inh-V</sub><br>30 acre<br>source area<br>(mg/kg) |
| Phenol, 4-tert-butyl-                         | 98-54-4    | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.2E+05                        | 2.5E+05                         | —                                                                            | —                                                                           |
| Phenothiazine                                 | 92-84-2    | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.1E+03                        | 2.2E+03                         | —                                                                            | —                                                                           |
| Phenyl mercuric acetate                       | 62-38-4    | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 8.2E+01                        | 1.6E+02                         | —                                                                            | —                                                                           |
| Phenylene diamine, m-                         | 108-45-2   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 6.1E+03                        | 1.2E+04                         | —                                                                            | —                                                                           |
| Phenylene diamine, p-                         | 106-50-3   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.9E+05                        | 3.9E+05                         | —                                                                            | —                                                                           |
| Phorate                                       | 298-02-2   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+02                        | 4.1E+02                         | —                                                                            | —                                                                           |
| Phosalone                                     | 2310-17-0  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+03                        | 4.1E+03                         | —                                                                            | —                                                                           |
| Phosdrin (mevinphos)                          | 7786-34-7  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.6E+01                        | 5.1E+01                         | —                                                                            | —                                                                           |
| Phosmet                                       | 732-11-6   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+04                        | 4.1E+04                         | —                                                                            | —                                                                           |
| Phosphine                                     | 7803-51-2  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | 6.4E+00                                                                       | 3.3E+00                                                                      | 3.1E+02                        | 1.2E+03                         | 6.4E+00                                                                      | 3.3E+00                                                                     |
| Phosphorotrithioic acid, S,S,S-tributyl ester | 78-48-8    | —                                                                             | —                                                                            | 3.4E+02                        | 6.8E+02                         | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 5.1E+02                        | 1.0E+03                         | —                                                                            | —                                                                           |
| Phosphorus, total*                            | 7723-14-0  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           |
| Phosphorus, white                             | 7723-14-0  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+01                        | 8.2E+01                         | —                                                                            | —                                                                           |
| Phthalic anhydride                            | 85-44-9    | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | 7.0E+04                                                                       | 3.6E+04                                                                      | 1.0E+06                        | 1.0E+06                         | 7.0E+04                                                                      | 3.6E+04                                                                     |
| Picloram                                      | 1918-02-1  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 7.2E+04                        | 1.4E+05                         | —                                                                            | —                                                                           |
| Picoline, 2- (2-methylpyridine)               | 109-06-8   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 9.2E+03                        | —                               | —                                                                            | —                                                                           |
| Polybrominated biphenyls (PBBs)               | 67774-32-7 | —                                                                             | —                                                                            | 3.2E+00                        | 6.4E+00                         | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 7.2E+00                        | 1.4E+01                         | —                                                                            | —                                                                           |
| Polychlorinated biphenyls (PCBs)              | 1336-36-3  | 9.1E+01                                                                       | 4.7E+01                                                                      | 1.4E+01                        | 2.0E+01                         | 9.1E+01                                                                      | 4.7E+01                                                                     | —                                                                             | —                                                                            | 2.0E+01                        | 2.9E+01                         | —                                                                            | —                                                                           |
| Potassium*                                    | 7440-09-7  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           |
| Primene                                       | 68955-53-3 | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 6.1E+03                        | 1.2E+04                         | —                                                                            | —                                                                           |
| Prometon (pramitol)                           | 1610-18-0  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.5E+04                        | 3.1E+04                         | —                                                                            | —                                                                           |
| Prometryn                                     | 7287-19-6  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+04                        | 8.2E+04                         | —                                                                            | —                                                                           |
| Pronamide                                     | 23950-58-5 | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 7.7E+04                        | 1.5E+05                         | —                                                                            | —                                                                           |
| Propanal (propionaldehyde)                    | 123-38-6   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | 1.7E+02                                                                       | 8.8E+01                                                                      | 8.2E+03                        | —                               | 1.7E+02                                                                      | 8.8E+01                                                                     |
| Propane, 1-bromo-                             | 106-94-5   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 3.7E+04                        | —                               | —                                                                            | —                                                                           |
| Propanil                                      | 709-98-8   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 5.1E+03                        | 1.0E+04                         | —                                                                            | —                                                                           |
| Propanoic acid (propionic acid)               | 79-09-4    | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 5.1E+05                        | —                               | —                                                                            | —                                                                           |
| Propanol, 1-                                  | 71-23-8    | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 1.0E+06                        | —                               | —                                                                            | —                                                                           |
| Propargite                                    | 2312-35-8  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+04                        | 4.1E+04                         | —                                                                            | —                                                                           |
| Propargyl alcohol                             | 107-19-7   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+03                        | —                               | —                                                                            | —                                                                           |
| Propazine                                     | 139-40-2   | —                                                                             | —                                                                            | 6.4E+02                        | 1.3E+03                         | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+04                        | 4.1E+04                         | —                                                                            | —                                                                           |
| Propham                                       | 122-42-9   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 2.0E+04                        | 4.1E+04                         | —                                                                            | —                                                                           |
| Propionitrile (propane nitrile)               | 107-12-0   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 4.1E+02                        | —                               | —                                                                            | —                                                                           |
| Propyl acetate, n-                            | 109-60-4   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | —                                                                             | —                                                                            | 9.2E+04                        | —                               | —                                                                            | —                                                                           |
| Propylbenzene, n-                             | 103-65-1   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | 8.9E+03                                                                       | 4.6E+03                                                                      | 4.1E+04                        | —                               | 8.9E+03                                                                      | 4.6E+03                                                                     |
| Propylene glycol                              | 57-55-6    | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | 5.1E+02                                                                       | 2.6E+02                                                                      | 1.0E+06                        | 1.0E+06                         | 5.1E+02                                                                      | 2.6E+02                                                                     |
| Propylene glycol monomethyl ether             | 107-98-2   | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | 3.2E+05                                                                       | 1.7E+05                                                                      | 7.2E+05                        | —                               | 3.2E+05                                                                      | 1.7E+05                                                                     |
| Propylene oxide                               | 75-56-9    | 1.6E+02                                                                       | 8.4E+01                                                                      | 1.2E+02                        | —                               | 1.6E+02                                                                      | 8.4E+01                                                                     | 6.4E+02                                                                       | 3.3E+02                                                                      | —                              | —                               | 6.4E+02                                                                      | 3.3E+02                                                                     |
| Propylene tetramer                            | 6842-15-5  | —                                                                             | —                                                                            | —                              | —                               | —                                                                            | —                                                                           | 2.1E+04                                                                       | 1.1E+04                                                                      | 1.0E+05                        | 2.0E+05                         | 2.1E+04                                                                      | 1.1E+04                                                                     |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

Last Revised: February 6, 2025

| Chemical of Concern                       | CAS         | Carcinogenic                                                                |                                                                            |                                                |                                                 |                                                                                         |                                                                                        | Noncarcinogenic                                                             |                                                                            |                                                |                                                 |                                                                                         |                                                                                        |
|-------------------------------------------|-------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                           |             | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub> 30<br>acre source<br>area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Prothiofos (Tokuthion)                    | 34643-46-4  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+02                                        | 2.0E+02                                         | —                                                                                       | —                                                                                      |
| Pyrene                                    | 129-00-0    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+04                                        | 4.7E+04                                         | —                                                                                       | —                                                                                      |
| Pyridine                                  | 110-86-1    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+03                                        | —                                               | —                                                                                       | —                                                                                      |
| Quinoline                                 | 91-22-5     | —                                                                           | —                                                                          | 9.5E+00                                        | 1.9E+01                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Ronnel                                    | 299-84-3    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+04                                        | 1.0E+05                                         | —                                                                                       | —                                                                                      |
| Safrole                                   | 94-59-7     | 1.1E+02                                                                     | 5.8E+01                                                                    | 1.3E+02                                        | 2.6E+02                                         | 1.1E+02                                                                                 | 5.8E+01                                                                                | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Selenium                                  | 7782-49-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+03                                        | 1.0E+05                                         | —                                                                                       | —                                                                                      |
| Selenourea                                | 630-10-4    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+03                                        | —                                               | —                                                                                       | —                                                                                      |
| Silver                                    | 7440-22-4   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+03                                        | 4.1E+03                                         | —                                                                                       | —                                                                                      |
| Simazine                                  | 122-34-9    | —                                                                           | —                                                                          | 2.4E+02                                        | 4.8E+02                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+03                                        | 1.0E+04                                         | —                                                                                       | —                                                                                      |
| Sodium*                                   | 7440-23-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Sodium hypochlorite                       | 7681-52-9   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 4.2E+05                                                                     | 2.2E+05                                                                    | 2.1E+05                                        | 8.6E+05                                         | —                                                                                       | —                                                                                      |
| Sodium polyacrylate                       | 9003-04-7   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.7E+02                                                                     | 8.7E+01                                                                    | 5.1E+05                                        | —                                               | 1.7E+02                                                                                 | 8.7E+01                                                                                |
| Strontium                                 | 7440-24-6   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 6.1E+05                                        | 1.0E+06                                         | —                                                                                       | —                                                                                      |
| Strychnine                                | 57-24-9     | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+02                                        | 6.1E+02                                         | —                                                                                       | —                                                                                      |
| Styrene                                   | 100-42-5    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.6E+04                                                                     | 8.1E+03                                                                    | 2.0E+05                                        | —                                               | 1.6E+04                                                                                 | 8.1E+03                                                                                |
| Sulfate*                                  | 14808-79-8  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Sulfide*                                  | 18496-25-8  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Sulfolane                                 | 126-33-0    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.2E+03                                                                     | 6.2E+02                                                                    | 1.3E+04                                        | 2.7E+04                                         | 1.2E+03                                                                                 | 6.2E+02                                                                                |
| Sulfur*                                   | 7704-34-9   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Sulprofos (Bolstar)                       | 35400-43-2  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Tebuconazole                              | 107534-96-3 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+04                                        | 6.1E+04                                         | —                                                                                       | —                                                                                      |
| Tebuthiuron                               | 34014-18-1  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 7.2E+04                                        | 1.4E+05                                         | —                                                                                       | —                                                                                      |
| Terbufos                                  | 13071-79-9  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.6E+01                                        | 5.1E+01                                         | —                                                                                       | —                                                                                      |
| Tert-amyl ethyl ether (TAAE)              | 919-94-8    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 4.1E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Tert-amyl-methyl ether (TAME)             | 994-05-8    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 4.1E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0     | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 5.1E+05                                                                     | 2.6E+05                                                                    | 7.2E+05                                        | —                                               | 5.1E+05                                                                                 | 2.6E+05                                                                                |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+02                                        | 6.1E+02                                         | —                                                                                       | —                                                                                      |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+02                                        | 6.1E+02                                         | —                                                                                       | —                                                                                      |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3     | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+02                                        | 6.1E+02                                         | —                                                                                       | —                                                                                      |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6    | 1.5E+02                                                                     | 7.8E+01                                                                    | 1.1E+03                                        | —                                               | 1.5E+02                                                                                 | 7.8E+01                                                                                | —                                                                           | —                                                                          | 3.1E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5     | —                                                                           | —                                                                          | 1.4E+02                                        | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+04                                        | —                                               | —                                                                                       | —                                                                                      |
| Tetrachloroethylene [PCE]                 | 127-18-4    | 1.6E+03                                                                     | 8.1E+02                                                                    | 1.4E+04                                        | —                                               | 1.6E+03                                                                                 | 8.1E+02                                                                                | 8.0E+03                                                                     | 4.1E+03                                                                    | 2.1E+04                                        | —                                               | 8.0E+03                                                                                 | 4.1E+03                                                                                |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+04                                        | 6.1E+04                                         | —                                                                                       | —                                                                                      |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2     | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+04                                        | 6.1E+04                                         | —                                                                                       | —                                                                                      |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+04                                        | 6.1E+04                                         | —                                                                                       | —                                                                                      |
| Tetrachlorvinphos (Stirophos)             | 22248-79-9  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 4.3E+04                                        | 8.6E+04                                         | —                                                                                       | —                                                                                      |
| Tetradifon                                | 116-29-0    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.0E+04                                        | 4.1E+04                                         | —                                                                                       | —                                                                                      |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+02                                        | 1.0E+03                                         | —                                                                                       | —                                                                                      |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                     | CAS        | Carcinogenic                                                                |                                                                            |                                                |                                                 |                                                                                         |                                                                                        | Noncarcinogenic                                                             |                                                                            |                                                |                                                 |                                                                                         |                                                                                        |
|-----------------------------------------|------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                         |            | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>30 acre<br>source area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-vp</sub> 30<br>acre source<br>area<br>(mg/kg) | Soil <sub>Soil</sub> <sub>Ing</sub><br>(mg/kg) | Soil <sub>Soil</sub> <sub>Derm</sub><br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/kg) | Air <sub>Soil</sub> <sub>Inh-V</sub> <sup>1</sup><br>30 acre<br>source area<br>(mg/kg) |
| Tetraethyl lead                         | 78-00-2    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E-01                                        | 2.0E-01                                         | —                                                                                       | —                                                                                      |
| Tetraethyl pyrophosphate (TEPP)         | 107-49-3   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.1E+01                                        | 2.2E+01                                         | —                                                                                       | —                                                                                      |
| Tetraethylene glycol                    | 112-60-7   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.4E+05                                        | 6.7E+05                                         | —                                                                                       | —                                                                                      |
| Tetrahydrofuran                         | 109-99-9   | 3.2E+02                                                                     | 1.6E+02                                                                    | 3.8E+03                                        | —                                               | 3.2E+02                                                                                 | 1.6E+02                                                                                | 4.3E+04                                                                     | 2.2E+04                                                                    | 9.2E+05                                        | —                                               | 4.3E+04                                                                                 | 2.2E+04                                                                                |
| Tetrahydropyran                         | 142-68-7   | 3.4E+02                                                                     | 1.7E+02                                                                    | 3.8E+03                                        | —                                               | 3.4E+02                                                                                 | 1.7E+02                                                                                | —                                                                           | —                                                                          | 2.0E+05                                        | —                                               | —                                                                                       | —                                                                                      |
| Tetraoxadodecane, 2,5,8,11-             | 112-49-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 2.6E+04                                        | 5.1E+04                                         | —                                                                                       | —                                                                                      |
| Thallium                                | 7440-28-0  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 6.8E+01                                        | 1.4E+03                                         | —                                                                                       | —                                                                                      |
| Thiofanox                               | 39196-18-4 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+02                                        | 6.1E+02                                         | —                                                                                       | —                                                                                      |
| Thionazin                               | 297-97-2   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 7.2E+01                                        | 1.4E+02                                         | —                                                                                       | —                                                                                      |
| Thiophanate-methyl                      | 23564-05-8 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 8.2E+04                                        | 1.6E+05                                         | —                                                                                       | —                                                                                      |
| Thiram                                  | 137-26-8   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 5.1E+03                                        | 1.0E+04                                         | —                                                                                       | —                                                                                      |
| Tin                                     | 7440-31-5  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 6.1E+05                                        | 1.0E+06                                         | —                                                                                       | —                                                                                      |
| Titanium                                | 7440-32-6  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.0E+06                                        | 1.0E+06                                         | —                                                                                       | —                                                                                      |
| Toluene                                 | 108-88-3   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 8.8E+04                                                                     | 4.5E+04                                                                    | 8.2E+04                                        | —                                               | 8.8E+04                                                                                 | 4.5E+04                                                                                |
| Toluene diisocyanate, 2,4/2,6-          | 26471-62-5 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.0E+02                                                                     | 1.0E+02                                                                    | —                                              | —                                               | 2.0E+02                                                                                 | 1.0E+02                                                                                |
| Toluenediamine, 2,4-                    | 95-80-7    | —                                                                           | —                                                                          | 8.9E+00                                        | 1.8E+01                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Toluenediamine, 2,6-                    | 823-40-5   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+04                                        | 6.1E+04                                         | —                                                                                       | —                                                                                      |
| Toluidine, o-                           | 95-53-4    | 2.3E+02                                                                     | 1.2E+02                                                                    | 1.8E+03                                        | 2.4E+02                                         | 2.3E+02                                                                                 | 1.2E+02                                                                                | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Toluidine, p-                           | 106-49-0   | —                                                                           | —                                                                          | 9.5E+02                                        | 3.0E+02                                         | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      |
| Toxaphene                               | 8001-35-2  | 1.6E+03                                                                     | 8.1E+02                                                                    | 2.6E+01                                        | 5.2E+01                                         | 1.6E+03                                                                                 | 8.3E+02                                                                                | —                                                                           | —                                                                          | 3.2E+02                                        | 6.3E+02                                         | —                                                                                       | —                                                                                      |
| TPH, TX1005, C6-C12                     | TPH-1005-1 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 4.3E+03                                                                     | 2.2E+03                                                                    | 4.1E+04                                        | —                                               | 4.3E+03                                                                                 | 2.2E+03                                                                                |
| TPH, TX1005, >C12-C28                   | TPH-1005-2 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.1E+04                                                                     | 1.1E+04                                                                    | 4.1E+04                                        | 8.2E+04                                         | 2.1E+04                                                                                 | 1.1E+04                                                                                |
| TPH, TX1005, >C12-C35                   | TPH-1005-3 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.1E+04                                                                     | 1.1E+04                                                                    | 4.1E+04                                        | 8.2E+04                                         | 2.1E+04                                                                                 | 1.1E+04                                                                                |
| TPH, TX1005, >C28-C35                   | TPH-1005-4 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 2.1E+04                                                                     | 1.1E+04                                                                    | 4.1E+04                                        | 8.2E+04                                         | 2.1E+04                                                                                 | 1.1E+04                                                                                |
| TP Silvex, 2,4,5-                       | 93-72-1    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 8.2E+03                                        | 1.6E+04                                         | —                                                                                       | —                                                                                      |
| Triademenol                             | 55219-65-3 | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+04                                        | 6.1E+04                                         | —                                                                                       | —                                                                                      |
| Triallate                               | 2303-17-5  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 1.3E+04                                        | 2.7E+04                                         | —                                                                                       | —                                                                                      |
| Triaminotrinitrobenzene (TATB)          | 3058-38-6  | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |
| Tributyltin oxide                       | 56-35-9    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+02                                        | 6.1E+02                                         | —                                                                                       | —                                                                                      |
| Trichloro-1,2,2-trifluoroethane, 1,1,2- | 76-13-1    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.1E+05                                                                     | 5.5E+04                                                                    | 1.0E+06                                        | —                                               | 1.1E+05                                                                                 | 5.5E+04                                                                                |
| Trichlorobenzene, 1,2,3-                | 87-61-6    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 4.2E+02                                                                     | 2.2E+02                                                                    | 3.1E+03                                        | 6.1E+03                                         | 4.2E+02                                                                                 | 2.2E+02                                                                                |
| Trichlorobenzene, 1,2,4-                | 120-82-1   | —                                                                           | —                                                                          | 9.9E+02                                        | 2.0E+03                                         | —                                                                                       | —                                                                                      | 2.1E+02                                                                     | 1.1E+02                                                                    | 1.0E+04                                        | 2.0E+04                                         | 2.1E+02                                                                                 | 1.1E+02                                                                                |
| Trichlorobenzene, 1,3,5-                | 108-70-3   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.8E+02                                                                     | 9.1E+01                                                                    | 3.1E+03                                        | 6.1E+03                                         | 1.8E+02                                                                                 | 9.1E+01                                                                                |
| Trichloroethane, 1,1,1-                 | 71-55-6    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | 1.1E+05                                                                     | 5.6E+04                                                                    | 1.0E+06                                        | —                                               | 1.1E+05                                                                                 | 5.6E+04                                                                                |
| Trichloroethane, 1,1,2-                 | 79-00-5    | 3.8E+01                                                                     | 1.9E+01                                                                    | 5.0E+02                                        | —                                               | 3.8E+01                                                                                 | 1.9E+01                                                                                | —                                                                           | —                                                                          | 4.1E+03                                        | —                                               | —                                                                                       | —                                                                                      |
| Trichloroethylene [TCE]                 | 79-01-6    | 1.5E+02                                                                     | 7.5E+01                                                                    | 6.2E+02                                        | —                                               | 1.5E+02                                                                                 | 7.5E+01                                                                                | 4.3E+01                                                                     | 2.2E+01                                                                    | 5.1E+02                                        | —                                               | 4.3E+01                                                                                 | 2.2E+01                                                                                |
| Trichlorofluoromethane                  | 75-69-4    | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+05                                        | —                                               | —                                                                                       | —                                                                                      |
| Trichloronate                           | 327-98-0   | —                                                                           | —                                                                          | —                                              | —                                               | —                                                                                       | —                                                                                      | —                                                                           | —                                                                          | 3.1E+03                                        | 6.1E+03                                         | —                                                                                       | —                                                                                      |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | Carcinogenic                                                         |                                                                     |                             |                              |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
|---------------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                   |            | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) |
| Trichlorophenol, 2,3,4-                           | 15950-66-0 | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Trichlorophenol, 2,3,5-                           | 933-78-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Trichlorophenol, 2,3,6-                           | 933-75-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Trichlorophenol, 2,4,5-                           | 95-95-4    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Trichlorophenol, 2,4,6-                           | 88-06-2    | 3.3E+03                                                              | 1.7E+03                                                             | 2.6E+03                     | 5.2E+03                      | 3.3E+03                                                             | 1.7E+03                                                            | —                                                                    | —                                                                   | 1.0E+03                     | 2.0E+03                      | —                                                                   | —                                                                  |
| Trichlorophenol, 3,4,5-                           | 609-19-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+05                     | 2.0E+05                      | —                                                                   | —                                                                  |
| Trichlorophenoxyacetic acid, 2,4,5-               | 93-76-5    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+04                     | 2.0E+04                      | —                                                                   | —                                                                  |
| Trichloropropane, 1,1,2-                          | 598-77-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 6.4E+00                                                              | 3.3E+00                                                             | 5.1E+03                     | —                            | 6.4E+00                                                             | 3.3E+00                                                            |
| Trichloropropane, 1,2,3-                          | 96-18-4    | —                                                                    | —                                                                   | 9.5E-01                     | —                            | —                                                                   | —                                                                  | 2.0E+01                                                              | 1.0E+01                                                             | 4.1E+03                     | —                            | 2.0E+01                                                             | 1.0E+01                                                            |
| Triethanolamine                                   | 102-71-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 5.4E+03                                                              | 2.8E+03                                                             | 2.0E+05                     | 4.1E+05                      | 5.4E+03                                                             | 2.8E+03                                                            |
| Triethylamine                                     | 121-44-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.5E+02                                                              | 7.7E+01                                                             | —                           | —                            | 1.5E+02                                                             | 7.7E+01                                                            |
| Triethylene glycol                                | 112-27-6   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | 1.0E+06                      | —                                                                   | —                                                                  |
| Triethylphosphorothioate, O, O, O-                | 126-68-1   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 8.5E+00                     | 1.7E+01                      | —                                                                   | —                                                                  |
| Trifluralin                                       | 1582-09-8  | —                                                                    | —                                                                   | 3.7E+03                     | 7.4E+03                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 7.7E+03                     | 1.5E+04                      | —                                                                   | —                                                                  |
| Trimethylamine                                    | 75-50-3    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.1E+02                                                              | 1.1E+02                                                             | —                           | —                            | 2.1E+02                                                             | 1.1E+02                                                            |
| Trimethylbenzene, 1,2,3-                          | 526-73-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 5.1E+03                                                              | 2.6E+03                                                             | 3.5E+04                     | —                            | 5.1E+03                                                             | 2.6E+03                                                            |
| Trimethylbenzene, 1,2,4-                          | 95-63-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 5.6E+03                                                              | 2.9E+03                                                             | 3.5E+04                     | —                            | 5.6E+03                                                             | 2.9E+03                                                            |
| Trimethylbenzene, 1,3,5-                          | 108-67-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.9E+03                                                              | 2.5E+03                                                             | 3.5E+04                     | —                            | 4.9E+03                                                             | 2.5E+03                                                            |
| Trinitrobenzene, 1,3,5-                           | 99-35-4    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+04                     | 6.1E+04                      | —                                                                   | —                                                                  |
| Trinitrophenylmethylnitramine (tetryl; nitramine) | 479-45-8   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 2.0E+03                     | 8.2E+03                      | —                                                                   | —                                                                  |
| Trinitrotoluene, 2,4,6-                           | 118-96-7   | —                                                                    | —                                                                   | 9.5E+02                     | 1.9E+03                      | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+02                     | 1.0E+03                      | —                                                                   | —                                                                  |
| Tungsten (as sodium tungstate dihydride)          | 7440-33-7  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.0E+06                                                              | 1.0E+06                                                             | 1.0E+03                     | 4.1E+03                      | —                                                                   | —                                                                  |
| Uranium (soluble salts)                           | 7440-61-1  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 5.4E+04                                                              | 2.8E+04                                                             | 3.1E+03                     | 6.1E+04                      | —                                                                   | —                                                                  |
| Valeric acid (pentanoic acid)                     | 109-52-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.8E+02                                                              | 9.5E+01                                                             | 5.1E+05                     | 1.0E+06                      | 1.8E+02                                                             | 9.5E+01                                                            |
| Vanadium                                          | 7440-62-2  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.1E+04                                                              | 2.1E+04                                                             | 1.8E+03                     | 9.6E+02                      | —                                                                   | —                                                                  |
| Vernam                                            | 1929-77-7  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+03                     | 2.0E+03                      | —                                                                   | —                                                                  |
| Vinyl acetate                                     | 108-05-4   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.3E+03                                                              | 2.2E+03                                                             | 1.0E+06                     | —                            | 4.3E+03                                                             | 2.2E+03                                                            |
| Vinyl chloride                                    | 75-01-4    | 7.2E+01                                                              | 3.7E+01                                                             | 1.9E+01                     | —                            | 7.2E+01                                                             | 3.7E+01                                                            | 1.3E+03                                                              | 6.6E+02                                                             | 3.1E+03                     | —                            | 1.3E+03                                                             | 6.6E+02                                                            |
| Vinylcyclohexane                                  | 695-12-5   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 5.1E+05                     | —                            | —                                                                   | —                                                                  |
| Warfarin                                          | 81-81-2    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+02                     | 6.1E+02                      | —                                                                   | —                                                                  |
| Xylene, m-                                        | 108-38-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.3E+04                                                              | 6.7E+03                                                             | 1.0E+06                     | —                            | 1.3E+04                                                             | 6.7E+03                                                            |
| Xylene, o-                                        | 95-47-6    | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 9.5E+04                                                              | 4.9E+04                                                             | 1.0E+06                     | —                            | 9.5E+04                                                             | 4.9E+04                                                            |
| Xylene, p-                                        | 106-42-3   | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.3E+04                                                              | 6.7E+03                                                             | 1.0E+06                     | —                            | 1.3E+04                                                             | 6.7E+03                                                            |
| Xylenes                                           | 1330-20-7  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.3E+04                                                              | 6.7E+03                                                             | 2.0E+05                     | —                            | 1.3E+04                                                             | 6.7E+03                                                            |
| Zinc                                              | 7440-66-6  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+05                     | 1.0E+06                      | —                                                                   | —                                                                  |
| 6 C aliphatics (TPH) (>53% n-hexane content)      | NA         | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.4E+04                                                              | 7.4E+03                                                             | 6.1E+04                     | —                            | 1.4E+04                                                             | 7.4E+03                                                            |
| 6 C aliphatics (TPH) (<53% n-hexane content)      | NA         | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.0E+05                                                              | 2.0E+05                                                             | 6.1E+04                     | —                            | 4.0E+05                                                             | 2.0E+05                                                            |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)   | NA         | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.4E+04                                                              | 7.4E+03                                                             | 6.1E+04                     | —                            | 1.4E+04                                                             | 7.4E+03                                                            |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)   | NA         | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.0E+05                                                              | 2.0E+05                                                             | 6.1E+04                     | —                            | 4.0E+05                                                             | 2.0E+05                                                            |

**Table 7**  
**Tier 1 Individual Commercial/Industrial Soil PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CAS | Carcinogenic                                                         |                                                                     |                             |                              |                                                                     |                                                                    | Noncarcinogenic                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-vp</sub> 30 acre source area (mg/kg) | Soil <sub>Ing</sub> (mg/kg) | Soil <sub>Derm</sub> (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 0.5 acre source area (mg/kg) | Air <sup>1</sup> Soil <sub>Inh-v</sub> 30 acre source area (mg/kg) |
| >8-10 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.1E+04                                                              | 5.5E+03                                                             | 1.0E+05                     | —                            | 1.1E+04                                                             | 5.5E+03                                                            |
| >10-12 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.1E+04                                                              | 5.5E+03                                                             | 1.0E+05                     | 2.0E+05                      | 1.1E+04                                                             | 5.5E+03                                                            |
| >12-16 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 1.7E+04                                                              | 8.7E+03                                                             | 1.0E+05                     | 2.0E+05                      | 1.7E+04                                                             | 8.7E+03                                                            |
| >16-21 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | 1.0E+06                      | —                                                                   | —                                                                  |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                                                                                                                                                                                                                | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | 1.0E+06                      | —                                                                   | —                                                                  |
| >21-35 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | 1.0E+06                      | —                                                                   | —                                                                  |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                                                                                                                                                                                                                | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 1.0E+06                     | 1.0E+06                      | —                                                                   | —                                                                  |
| >7-8 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.1E+04                                                              | 2.1E+04                                                             | 1.0E+05                     | —                            | 4.1E+04                                                             | 2.1E+04                                                            |
| >8-10 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 4.3E+03                                                              | 2.2E+03                                                             | 4.1E+04                     | —                            | 4.3E+03                                                             | 2.2E+03                                                            |
| >10-12 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 9.2E+03                                                              | 4.8E+03                                                             | 4.1E+04                     | 8.2E+04                      | 9.2E+03                                                             | 4.8E+03                                                            |
| >12-16 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | 2.1E+04                                                              | 1.1E+04                                                             | 4.1E+04                     | 8.2E+04                      | 2.1E+04                                                             | 1.1E+04                                                            |
| >16-21 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+04                     | 6.1E+04                      | —                                                                   | —                                                                  |
| >21-35 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA  | —                                                                    | —                                                                   | —                           | —                            | —                                                                   | —                                                                  | —                                                                    | —                                                                   | 3.1E+04                     | 6.1E+04                      | —                                                                   | —                                                                  |
| <b>Footnotes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
| <b>1</b> For subsurface soils only                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
| <b>2</b> Site-specific PCLs for mercury may vary based on the pH-dependent K <sub>d</sub> value(see Figure:30 TAC §350.73(f)(1)(C)). Persons should use the Tier 1 pH 4.9-based PCLs unless a site-specific soil pH > 6.8 is demonstrated with site-specific soil samples.                                                                                                                                                                                                           |     |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
| <b>*</b> These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <a href="http://www.tceq.state.tx.us/remediation/trrp/trrp.html">http://www.tceq.state.tx.us/remediation/trrp/trrp.html</a> . |     |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
| NA = not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |
| All values capped at 1E+06                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |                                                                      |                                                                     |                             |                              |                                                                     |                                                                    |

This table shows individual protective concentration levels for commercial/industrial properties with carcinogenic and non-carcinogenic values depicted.

end of worksheet

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS        | Residential                              |                                              |                                          |                                              |                                                                                      |                                                                               |                                                                                      |                                                                               | Commercial/Industrial                    |                                              |                                          |                                              |                                                                                      |                                                                               |                                                                                      |                                                                               |
|------------------------------------------|------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                          |            | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                         |                                                                               | Noncarcinogenic                                                                      |                                                                               | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                         |                                                                               | Noncarcinogenic                                                                      |                                                                               |
|                                          |            | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| Acenaphthene                             | 83-32-9    | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 4.4E+00                                  | 4.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Acenaphthylene                           | 208-96-8   | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 4.4E+00                                  | 4.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Acetaldehyde                             | 75-07-0    | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | 2.8E+03                                                                              | 3.6E+02                                                                       | 2.4E+03                                                                              | 3.1E+02                                                                       | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | 4.7E+03                                                                              | 6.0E+02                                                                       | 3.3E+03                                                                              | 4.3E+02                                                                       |
| Acetate, 2-ethoxyethanol                 | 111-15-9   | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | 4.5E+05                                                                              | 5.8E+04                                                                       | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | 6.3E+05                                                                              | 8.1E+04                                                                       |
| Acetate, isoamyl                         | 123-92-2   | —                                        | —                                            | 1.8E+00                                  | 1.8E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 5.3E+00                                  | 5.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Acetate, isobutyl                        | 110-19-0   | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.5E+00                                  | 3.5E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Acetate, sec-butyl                       | 105-46-4   | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.5E+00                                  | 3.5E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Acetic acid*                             | 64-19-7    | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Acetone (2-propanone)                    | 67-64-1    | —                                        | —                                            | 2.2E+01                                  | 2.2E+03                                      | —                                                                                    | —                                                                             | 1.0E+06                                                                              | 1.0E+06                                                                       | —                                        | —                                            | 6.6E+01                                  | 6.6E+03                                      | —                                                                                    | —                                                                             | 1.0E+06                                                                              | 1.0E+06                                                                       |
| Acetone cyanohydrin                      | 75-86-5    | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | 3.4E+05                                                                              | 4.4E+04                                                                       | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                    | —                                                                             | 4.8E+05                                                                              | 6.2E+04                                                                       |
| Acetonitrile                             | 75-05-8    | —                                        | —                                            | 7.8E-01                                  | 7.8E+01                                      | —                                                                                    | —                                                                             | 3.2E+04                                                                              | 4.2E+03                                                                       | —                                        | —                                            | 2.3E+00                                  | 2.3E+02                                      | —                                                                                    | —                                                                             | 4.5E+04                                                                              | 5.8E+03                                                                       |
| Acetophenone                             | 98-86-2    | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Acetylaminofluorene, 2-                  | 53-96-3    | 2.4E-04                                  | 2.4E-02                                      | —                                        | —                                            | 6.3E+02                                                                              | 1.0E+02                                                                       | —                                                                                    | —                                                                             | 5.4E-04                                  | 5.4E-02                                      | —                                        | —                                            | 1.1E+03                                                                              | 1.8E+02                                                                       | —                                                                                    | —                                                                             |
| Acifluorfen, sodium                      | 62476-59-9 | —                                        | —                                            | 3.2E-01                                  | 3.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 9.5E-01                                  | 9.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Acridine                                 | 260-94-6   | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Acrolein                                 | 107-02-8   | —                                        | —                                            | 1.2E-02                                  | 1.2E+00                                      | —                                                                                    | —                                                                             | 9.5E+03                                                                              | 1.2E+03                                                                       | —                                        | —                                            | 3.7E-02                                  | 3.7E+00                                      | —                                                                                    | —                                                                             | 1.3E+04                                                                              | 1.7E+03                                                                       |
| Acrylamide                               | 79-06-1    | 1.8E-03                                  | 1.8E-01                                      | 4.9E-02                                  | 4.9E+00                                      | 3.8E+03                                                                              | 5.0E+02                                                                       | 9.7E+04                                                                              | 1.3E+04                                                                       | 4.1E-03                                  | 4.1E-01                                      | 1.5E-01                                  | 1.5E+01                                      | 6.3E+03                                                                              | 8.4E+02                                                                       | 1.4E+05                                                                              | 1.8E+04                                                                       |
| Acrylic acid                             | 79-10-7    | —                                        | —                                            | 1.2E+01                                  | 1.2E+03                                      | —                                                                                    | —                                                                             | 1.5E+04                                                                              | 2.0E+03                                                                       | —                                        | —                                            | 3.7E+01                                  | 3.7E+03                                      | —                                                                                    | —                                                                             | 2.1E+04                                                                              | 2.7E+03                                                                       |
| Acrylonitrile                            | 107-13-1   | 1.7E-03                                  | 1.7E-01                                      | 2.4E-02                                  | 2.4E+00                                      | 5.8E+01                                                                              | 7.5E+00                                                                       | 3.4E+02                                                                              | 4.3E+01                                                                       | 3.8E-03                                  | 3.8E-01                                      | 7.3E-02                                  | 7.3E+00                                      | 9.7E+01                                                                              | 1.3E+01                                                                       | 4.7E+02                                                                              | 6.1E+01                                                                       |
| Adipic acid (hexanedioic acid)           | 124-04-9   | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E-02                                  | 1.5E+04                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Alachlor                                 | 15972-60-8 | 1.1E-02                                  | 1.1E+00                                      | 2.4E-01                                  | 2.4E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 2.6E-02                                  | 2.6E+00                                      | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Aldicarb                                 | 116-06-3   | —                                        | —                                            | 2.4E-02                                  | 2.4E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Aldicarb sulfone                         | 1646-88-4  | —                                        | —                                            | 2.4E-02                                  | 2.4E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Aldrin                                   | 309-00-2   | 5.4E-05                                  | 5.4E-03                                      | 7.3E-04                                  | 7.3E-02                                      | 4.4E+00                                                                              | 5.7E-01                                                                       | —                                                                                    | —                                                                             | 1.2E-04                                  | 1.2E-02                                      | 2.2E-03                                  | 2.2E-01                                      | 7.4E+00                                                                              | 9.6E-01                                                                       | —                                                                                    | —                                                                             |
| Allyl alcohol                            | 107-18-6   | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                                    | —                                                                             | 3.0E+02                                                                              | 3.8E+01                                                                       | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                                    | —                                                                             | 4.1E+02                                                                              | 5.4E+01                                                                       |
| Allyl chloride                           | 107-05-1   | —                                        | —                                            | 2.4E-01                                  | 2.4E+01                                      | —                                                                                    | —                                                                             | 9.1E+00                                                                              | 1.2E+00                                                                       | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | 1.3E+01                                                                              | 1.7E+00                                                                       |
| Aluminum                                 | 7429-90-5  | —                                        | —                                            | 2.4E+01                                  | 2.4E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+01                                  | 7.3E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Ametryn                                  | 834-12-8   | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 6.6E-01                                  | 6.6E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Amino-2,6-dinitrotoluene, 4-             | 19406-51-0 | 3.0E-02                                  | 3.0E+00                                      | 1.2E-02                                  | 1.2E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 6.8E-02                                  | 6.8E+00                                      | 3.7E-02                                  | 3.7E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Amino-4,6-dinitrotoluene, 2-             | 35572-78-2 | 3.0E-02                                  | 3.0E+00                                      | 1.2E-02                                  | 1.2E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 6.8E-02                                  | 6.8E+00                                      | 3.7E-02                                  | 3.7E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine) | 92-67-1    | 1.5E-04                                  | 1.5E-02                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 3.4E-04                                  | 3.4E-02                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Aminopyridine, 4-                        | 504-24-5   | —                                        | —                                            | 4.9E-04                                  | 4.9E-02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E-03                                  | 1.5E-01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Ammonia                                  | 7664-41-7  | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | 8.7E+03                                                                              | 1.1E+03                                                                       | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | 1.2E+04                                                                              | 1.6E+03                                                                       |
| Ammonium polyphosphate*                  | 6833-79-9  | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Ammonium salts*                          | AMMONIUM   | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Aniline                                  | 62-53-3    | 1.6E-01                                  | 1.6E+01                                      | 1.7E-01                                  | 1.7E+01                                      | —                                                                                    | —                                                                             | 1.1E+04                                                                              | 1.4E+03                                                                       | 3.6E-01                                  | 3.6E+01                                      | 5.1E-01                                  | 5.1E+01                                      | —                                                                                    | —                                                                             | 1.6E+04                                                                              | 2.0E+03                                                                       |
| Anthracene                               | 120-12-7   | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E+01                                  | 2.2E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Anthraquinone, 9,10-                     | 84-65-1    | 2.3E-02                                  | 2.3E+00                                      | 4.9E-01                                  | 4.9E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 5.2E-02                                  | 5.2E+00                                      | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Antimony                                 | 7440-36-0  | —                                        | —                                            | 9.8E-03                                  | 9.8E-01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.9E-02                                  | 2.9E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Aramite                                  | 140-57-8   | 3.7E-02                                  | 3.7E+00                                      | 1.2E+00                                  | 1.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 8.2E-02                                  | 8.2E+00                                      | 3.7E+00                                  | 3.7E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Arsenic                                  | 7440-38-2  | 6.1E-03                                  | 6.1E-01                                      | 7.3E-03                                  | 7.3E-01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 1.4E-02                                  | 1.4E+00                                      | 2.2E-02                                  | 2.2E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Arsine                                   | 7784-42-1  | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Atrazine                                 | 1912-24-9  | 4.1E-03                                  | 4.1E-01                                      | 8.6E-01                                  | 8.6E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 9.2E-03                                  | 9.2E-01                                      | 2.6E+00                                  | 2.6E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Azinphos-methyl (guthion)                | 86-50-0    | —                                        | —                                            | 3.7E-02                                  | 3.7E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.1E-01                                  | 1.1E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Azobenzene                               | 103-33-3   | 8.3E-03                                  | 8.3E-01                                      | —                                        | —                                            | 6.8E+02                                                                              | 8.8E+01                                                                       | —                                                                                    | —                                                                             | 1.9E-02                                  | 1.9E+00                                      | —                                        | —                                            | 1.1E+03                                                                              | 1.5E+02                                                                       | —                                                                                    | —                                                                             |
| Barium                                   | 7440-39-3  | —                                        | —                                            | 4.9E+00                                  | 4.9E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Bayleton                                 | 43121-43-3 | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Benefin (benfluralin)                    | 1861-40-1  | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E+01                                  | 2.2E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Benomyl                                  | 17804-35-2 | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Benz-a-anthracene                        | 56-55-3    | 9.1E-03                                  | 9.1E-01                                      | —                                        | —                                            | 3.0E+03                                                                              | 3.9E+02                                                                       | —                                                                                    | —                                                                             | 2.0E-02                                  | 2.0E+00                                      | —                                        | —                                            | 5.0E+03                                                                              | 6.5E+02                                                                       | —                                                                                    | —                                                                             |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | Residential                               |                                              |                                           |                                              |                                                                           |                                                                        |                                                                           |                                                                        | Commercial/Industrial                     |                                              |                                           |                                              |                                                                           |                                                                     |                                                                           |                                                                     |
|-----------------------------------------------|------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|
|                                               |            | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                              |                                                                        | Noncarcinogenic                                                           |                                                                        | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                              |                                                                     | Noncarcinogenic                                                           |                                                                     |
|                                               |            | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area<br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area<br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| Benzaldehyde                                  | 100-52-7   | —                                         | —                                            | 2.4E+00                                   | 2.4E+02                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Benzene                                       | 71-43-2    | 6.1E-02                                   | 6.1E+00                                      | 9.8E-02                                   | 9.8E+00                                      | 1.8E+02                                                                   | 2.3E+01                                                                | 4.7E+03                                                                   | 6.1E+02                                                                | 1.4E-01                                   | 1.4E+01                                      | 2.9E-01                                   | 2.9E+01                                      | 3.0E+02                                                                   | 3.9E+01                                                             | 6.6E+03                                                                   | 8.6E+02                                                             |
| Benzenedicarbonitrile, 1,3-                   | 626-17-5   | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 4.4E-01                                   | 4.4E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                         | —                                                                      | 1.5E+05                                                                   | 1.9E+04                                                                | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                         | —                                                                   | 2.0E+05                                                                   | 2.6E+04                                                             |
| Benzenethiol                                  | 108-98-5   | —                                         | —                                            | 2.4E-02                                   | 2.4E+00                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 7.3E-02                                   | 7.3E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Benzidine                                     | 92-87-5    | 4.0E-06                                   | 4.0E-04                                      | 7.3E-02                                   | 7.3E+00                                      | 5.0E+00                                                                   | 8.4E-01                                                                | —                                                                         | —                                                                      | 8.9E-06                                   | 8.9E-04                                      | 2.2E-01                                   | 2.2E+01                                      | 8.4E+00                                                                   | 1.4E+00                                                             | —                                                                         | —                                                                   |
| Benzo-a-pyrene                                | 50-32-8    | 9.1E-04                                   | 9.1E-02                                      | 7.3E-03                                   | 7.3E-01                                      | 5.7E+02                                                                   | 7.4E+01                                                                | 2.9E+01                                                                   | 3.8E+00                                                                | 2.0E-03                                   | 2.0E-01                                      | 2.2E-02                                   | 2.2E+00                                      | 9.6E+02                                                                   | 1.2E+02                                                             | 4.1E+01                                                                   | 5.3E+00                                                             |
| Benzo-b-fluoranthene                          | 205-99-2   | 9.1E-03                                   | 9.1E-01                                      | —                                         | —                                            | 2.4E+03                                                                   | 3.1E+02                                                                | —                                                                         | —                                                                      | 2.0E-02                                   | 2.0E+00                                      | —                                         | —                                            | 4.0E+03                                                                   | 5.2E+02                                                             | —                                                                         | —                                                                   |
| Benzo-e-pyrene                                | 192-97-2   | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Benzo-g,h,i-perylene                          | 191-24-2   | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Benzoic acid                                  | 65-85-0    | —                                         | —                                            | 9.8E+01                                   | 9.8E+03                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 2.9E+02                                   | 2.9E+04                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Benzo-j-fluoranthene                          | 205-82-3   | 9.1E-03                                   | 9.1E-01                                      | —                                         | —                                            | 1.5E+03                                                                   | 2.0E+02                                                                | —                                                                         | —                                                                      | 2.0E-02                                   | 2.0E+00                                      | —                                         | —                                            | 2.6E+03                                                                   | 3.3E+02                                                             | —                                                                         | —                                                                   |
| Benzo-k-fluoranthene                          | 207-08-9   | 9.1E-02                                   | 9.1E+00                                      | —                                         | —                                            | 1.4E+05                                                                   | 1.8E+04                                                                | —                                                                         | —                                                                      | 2.0E-01                                   | 2.0E+01                                      | —                                         | —                                            | 2.4E+05                                                                   | 3.1E+04                                                             | —                                                                         | —                                                                   |
| Benzophenone                                  | 119-61-9   | —                                         | —                                            | 1.6E-01                                   | 1.6E+01                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 4.9E-01                                   | 4.9E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Benzotrichloride                              | 98-07-7    | 7.0E-05                                   | 7.0E-03                                      | —                                         | —                                            | —                                                                         | —                                                                      | —                                                                         | —                                                                      | 1.6E-04                                   | 1.6E-02                                      | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Benzoyl peroxide                              | 94-36-0    | —                                         | —                                            | 1.2E+00                                   | 1.2E+02                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Benzyl alcohol                                | 100-51-6   | —                                         | —                                            | 2.4E+00                                   | 2.4E+02                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Benzyl chloride                               | 100-44-7   | 5.4E-03                                   | 5.4E-01                                      | 4.9E-02                                   | 4.9E+00                                      | —                                                                         | —                                                                      | 1.0E+02                                                                   | 1.3E+01                                                                | 1.2E-02                                   | 1.2E+00                                      | 1.5E-01                                   | 1.5E+01                                      | —                                                                         | —                                                                   | 1.4E+02                                                                   | 1.8E+01                                                             |
| Benzyl dichloride                             | 98-87-3    | 5.4E-03                                   | 5.4E-01                                      | 4.9E-02                                   | 4.9E+00                                      | —                                                                         | —                                                                      | 2.0E+02                                                                   | 2.6E+01                                                                | 1.2E-02                                   | 1.2E+00                                      | 1.5E-01                                   | 1.5E+01                                      | —                                                                         | —                                                                   | 2.8E+02                                                                   | 3.6E+01                                                             |
| Beryllium                                     | 7440-41-7  | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Biphenyl, 1,1'-                               | 92-52-4    | —                                         | —                                            | 1.2E+01                                   | 1.2E+03                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 3.7E+01                                   | 3.7E+03                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Biphenyl, 1,1'-, 2-phenoxy-                   | 6738-04-1  | —                                         | —                                            | 1.2E+00                                   | 1.2E+02                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Biquinoline, 2,2'-                            | 119-91-5   | —                                         | —                                            | 7.3E-02                                   | 7.3E+00                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 2.2E-01                                   | 2.2E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Bis (2-chloroethoxy) methane                  | 111-91-1   | 8.3E-04                                   | 8.3E-02                                      | 7.3E-02                                   | 7.3E+00                                      | 8.0E+01                                                                   | 1.0E+01                                                                | —                                                                         | —                                                                      | 1.9E-03                                   | 1.9E-01                                      | 2.2E-01                                   | 2.2E+01                                      | 1.3E+02                                                                   | 1.7E+01                                                             | —                                                                         | —                                                                   |
| Bis (2-chloroethyl) ether                     | 111-44-4   | 8.3E-04                                   | 8.3E-02                                      | —                                         | —                                            | 9.3E+01                                                                   | 1.2E+01                                                                | —                                                                         | —                                                                      | 1.9E-03                                   | 1.9E-01                                      | —                                         | —                                            | 1.6E+02                                                                   | 2.0E+01                                                             | —                                                                         | —                                                                   |
| Bis (2-chloro-1-methylethyl) ether            | 108-60-1   | 1.3E-02                                   | 1.3E+00                                      | 9.8E-01                                   | 9.8E+01                                      | 8.7E+02                                                                   | 1.1E+02                                                                | —                                                                         | —                                                                      | 2.9E-02                                   | 2.9E+00                                      | 2.9E+00                                   | 2.9E+02                                      | 1.5E+03                                                                   | 1.9E+02                                                             | —                                                                         | —                                                                   |
| Bis (2-chloromethyl) ether                    | 542-88-1   | 4.1E-06                                   | 4.1E-04                                      | —                                         | —                                            | 8.5E-02                                                                   | 1.1E-02                                                                | —                                                                         | —                                                                      | 9.3E-06                                   | 9.3E-04                                      | —                                         | —                                            | 1.4E-01                                                                   | 1.9E-02                                                             | —                                                                         | —                                                                   |
| Bis (2-ethyl-hexyl) phthalate                 | 117-81-7   | 6.5E-02                                   | 6.5E+00                                      | 4.9E-01                                   | 4.9E+01                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | 1.5E-01                                   | 1.5E+01                                      | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Bismuth                                       | 7440-69-9  | —                                         | —                                            | 1.2E+01                                   | 1.2E+03                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 3.7E+01                                   | 3.7E+03                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Bisphenol A                                   | 80-05-7    | —                                         | —                                            | 1.2E+00                                   | 1.2E+02                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Boron                                         | 7440-42-8  | —                                         | —                                            | 4.9E+00                                   | 4.9E+02                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 1.5E+01                                   | 1.5E+03                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Bromacil                                      | 314-40-9   | —                                         | —                                            | 2.4E+00                                   | 2.4E+02                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Bromo-2-chloroethane, 1-                      | 107-04-0   | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Bromobenzene                                  | 108-86-1   | —                                         | —                                            | 2.0E-01                                   | 2.0E+01                                      | —                                                                         | —                                                                      | 2.3E+03                                                                   | 2.9E+02                                                                | —                                         | —                                            | 5.8E-01                                   | 5.8E+01                                      | —                                                                         | —                                                                   | 3.2E+03                                                                   | 4.1E+02                                                             |
| Bromodichloromethane                          | 75-27-4    | 1.5E-02                                   | 1.5E+00                                      | 2.0E-01                                   | 2.0E+01                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | 3.3E-02                                   | 3.3E+00                                      | 5.8E-01                                   | 5.8E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Bromoform <sup>3</sup>                        | 75-25-2    | 1.2E-01                                   | 1.2E+01                                      | 4.9E-01                                   | 4.9E+01                                      | 5.1E+03                                                                   | 6.7E+02                                                                | —                                                                         | —                                                                      | 2.6E-01                                   | 2.6E+01                                      | 1.5E+00                                   | 1.5E+02                                      | 8.6E+03                                                                   | 1.1E+03                                                             | —                                                                         | —                                                                   |
| Bromomethane                                  | 74-83-9    | —                                         | —                                            | 3.4E-02                                   | 3.4E+00                                      | —                                                                         | —                                                                      | 3.6E+01                                                                   | 4.6E+00                                                                | —                                         | —                                            | 1.0E-01                                   | 1.0E+01                                      | —                                                                         | —                                                                   | 5.0E+01                                                                   | 6.5E+00                                                             |
| Bromophenyl phenylether, 4-                   | 101-55-3   | 6.1E-05                                   | 6.1E-03                                      | —                                         | —                                            | 1.6E+00                                                                   | 2.0E-01                                                                | —                                                                         | —                                                                      | 1.4E-04                                   | 1.4E-02                                      | —                                         | —                                            | 2.7E+00                                                                   | 3.4E-01                                                             | —                                                                         | —                                                                   |
| Butadiene, 1,3-                               | 106-99-0   | —                                         | —                                            | —                                         | —                                            | 5.1E+01                                                                   | 6.6E+00                                                                | 3.6E+01                                                                   | 4.7E+00                                                                | —                                         | —                                            | —                                         | —                                            | 8.6E+01                                                                   | 1.1E+01                                                             | 5.1E+01                                                                   | 6.6E+00                                                             |
| Butadiene, 2-methyl-1,3- (isoprene)           | 78-79-5    | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                      | 8.2E+04                                                                   | 1.1E+04                                                                | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 1.2E+05                                                                   | 1.5E+04                                                             |
| Butanal (butyraldehyde)                       | 123-72-8   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                      | 2.0E+04                                                                   | 2.6E+03                                                                | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 2.8E+04                                                                   | 3.6E+03                                                             |
| Butane, 2,3-dimethyl-                         | 79-29-8    | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                      | 2.4E+03                                                                   | 3.0E+02                                                                | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 3.3E+03                                                                   | 4.3E+02                                                             |
| Butanoic acid (butyric acid)                  | 107-92-6   | —                                         | —                                            | 1.2E+01                                   | 1.2E+03                                      | —                                                                         | —                                                                      | 1.9E+04                                                                   | 2.5E+03                                                                | —                                         | —                                            | 3.7E+01                                   | 3.7E+03                                      | —                                                                         | —                                                                   | 2.7E+04                                                                   | 3.4E+03                                                             |
| Butanol, 2-                                   | 78-92-2    | —                                         | —                                            | 4.9E+01                                   | 4.9E+03                                      | —                                                                         | —                                                                      | 1.0E+06                                                                   | 1.0E+06                                                                | —                                         | —                                            | 1.5E+02                                   | 1.5E+04                                      | —                                                                         | —                                                                   | 1.0E+06                                                                   | 1.0E+06                                                             |
| Butanol, 2-methyl-1-                          | 137-32-6   | —                                         | —                                            | 2.4E-01                                   | 2.4E+01                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Butanol, 2-methyl-2-                          | 75-85-4    | —                                         | —                                            | 2.4E-01                                   | 2.4E+01                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Butanol, n-                                   | 71-36-3    | —                                         | —                                            | 2.4E+00                                   | 2.4E+02                                      | —                                                                         | —                                                                      | —                                                                         | —                                                                      | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Butene, 1-                                    | 106-98-9   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                      | 2.9E+03                                                                   | 3.8E+02                                                                | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 4.1E+03                                                                   | 5.3E+02                                                             |
| Butene, cis-2-                                | 590-18-1   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                      | 1.3E+03                                                                   | 1.7E+02                                                                | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 1.8E+03                                                                   | 2.3E+02                                                             |
| Butene, trans-2-                              | 624-64-6   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                      | 1.3E+03                                                                   | 1.7E+02                                                                | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 1.8E+03                                                                   | 2.3E+02                                                             |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                        | CAS        | Residential                              |                                              |                                          |                                              |                                                                                     |                                                                                  |                                                                                     |                                                                                  | Commercial/Industrial                    |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |
|------------------------------------------------------------|------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                            |            | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                        |                                                                                  | Noncarcinogenic                                                                     |                                                                                  | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                        |                                                                               | Noncarcinogenic                                                                     |                                                                               |
|                                                            |            | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>acre source<br>area<br>(mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>acre source<br>area<br>(mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Int</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2   | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                                | 1.0E+06                                                                             | 1.0E+06                                                                          | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | 1.0E+06                                                                             | 1.0E+06                                                                       |
| Butyl acetate                                              | 123-86-4   | —                                        | —                                            | 3.4E+00                                  | 3.4E+02                                      | —                                                                                   | —                                                                                | 7.0E+05                                                                             | 9.1E+04                                                                          | —                                        | —                                            | 1.0E+01                                  | 1.0E+03                                      | —                                                                                   | —                                                                             | 9.8E+05                                                                             | 1.3E+05                                                                       |
| Butyl acrylate                                             | 141-32-2   | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 6.6E-01                                  | 6.6E+01                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Butyl benzyl phthalate                                     | 85-68-7    | 4.8E-01                                  | 4.8E+01                                      | 4.9E+00                                  | 4.9E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | 1.1E+00                                  | 1.1E+02                                      | 1.5E+01                                  | 1.5E+03                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Butyl ether, n- (dibutyl ether)                            | 142-96-1   | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Butyl methacrylate                                         | 97-88-1    | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 6.6E+00                                  | 6.6E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Butylate                                                   | 2008-41-5  | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Butylbenzene, n-                                           | 104-51-8   | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Butylbenzene, sec-                                         | 135-98-8   | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Butylbenzene, tert-                                        | 98-06-6    | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Cacodylic acid                                             | 75-60-5    | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Cadmium                                                    | 7440-43-9  | —                                        | —                                            | 2.4E-02                                  | 2.4E+00                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Calcium*                                                   | 7440-70-2  | —                                        | —                                            | —                                        | —                                            | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | —                                        | —                                            | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Caprolactam                                                | 105-60-2   | —                                        | —                                            | 1.2E+01                                  | 1.2E+03                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 3.7E+01                                  | 3.7E+03                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Captan                                                     | 133-06-2   | 2.6E-01                                  | 2.6E+01                                      | 3.2E+00                                  | 3.2E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | 5.8E-01                                  | 5.8E+01                                      | 9.5E+00                                  | 9.5E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Carbaryl                                                   | 63-25-2    | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Carbazole                                                  | 86-74-8    | 4.6E-02                                  | 4.6E+00                                      | —                                        | —                                            | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | 1.0E-01                                  | 1.0E+01                                      | —                                        | —                                            | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Carbofuran                                                 | 1563-66-2  | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Carbon disulfide                                           | 75-15-0    | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                                | 4.9E+03                                                                             | 6.3E+02                                                                          | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | 6.8E+03                                                                             | 8.8E+02                                                                       |
| Carbon tetrachloride                                       | 56-23-5    | 1.3E-02                                  | 1.3E+00                                      | 9.8E-02                                  | 9.8E+00                                      | 3.3E+01                                                                             | 4.2E+00                                                                          | 8.1E+02                                                                             | 1.0E+02                                                                          | 2.9E-02                                  | 2.9E+00                                      | 2.9E-01                                  | 2.9E+01                                      | 5.5E+01                                                                             | 7.1E+00                                                                       | 1.1E+03                                                                             | 1.5E+02                                                                       |
| Carbophenothion                                            | 786-19-6   | —                                        | —                                            | 3.2E-01                                  | 3.2E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 9.5E-01                                  | 9.5E+01                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Carbosulfan                                                | 55285-14-8 | —                                        | —                                            | 2.4E-01                                  | 2.4E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Carboxin                                                   | 5234-68-4  | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chloral                                                    | 75-87-6    | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)         | 302-17-0   | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid)      | 133-90-4   | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 1.1E+00                                  | 1.1E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chlordane (technical)                                      | 12789-03-6 | 2.6E-03                                  | 2.6E-01                                      | 1.2E-02                                  | 1.2E+00                                      | 7.7E+02                                                                             | 9.9E+01                                                                          | 2.3E+03                                                                             | 3.0E+02                                                                          | 5.8E-03                                  | 5.8E-01                                      | 3.7E-02                                  | 3.7E+00                                      | 1.3E+03                                                                             | 1.7E+02                                                                       | 3.2E+03                                                                             | 4.2E+02                                                                       |
| Chlordane, cis- (alpha chlordane)                          | 5103-71-9  | 2.6E-03                                  | 2.6E-01                                      | 1.2E-02                                  | 1.2E+00                                      | 1.5E+02                                                                             | 2.0E+01                                                                          | 4.6E+02                                                                             | 6.0E+01                                                                          | 5.8E-03                                  | 5.8E-01                                      | 3.7E-02                                  | 3.7E+00                                      | 2.6E+02                                                                             | 3.3E+01                                                                       | 6.5E+02                                                                             | 8.4E+01                                                                       |
| Chlordane, trans- (gamma chlordane)                        | 5103-74-2  | 2.6E-03                                  | 2.6E-01                                      | 1.2E-02                                  | 1.2E+00                                      | 1.5E+02                                                                             | 2.0E+01                                                                          | 4.6E+02                                                                             | 6.0E+01                                                                          | 5.8E-03                                  | 5.8E-01                                      | 3.7E-02                                  | 3.7E+00                                      | 2.6E+02                                                                             | 3.3E+01                                                                       | 6.5E+02                                                                             | 8.4E+01                                                                       |
| Chlorfenvinphos                                            | 470-90-6   | —                                        | —                                            | 1.7E-02                                  | 1.7E+00                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 5.1E-02                                  | 5.1E+00                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chloride*                                                  | 16887-00-6 | —                                        | —                                            | —                                        | —                                            | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | —                                        | —                                            | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chlorine                                                   | 7782-50-5  | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                                | 1.3E+01                                                                             | 1.6E+00                                                                          | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | 1.8E+01                                                                             | 2.3E+00                                                                       |
| Chloro-1,3-butadiene, 2-                                   | 126-99-8   | —                                        | —                                            | —                                        | —                                            | 2.8E-01                                                                             | 3.7E-02                                                                          | 7.3E+01                                                                             | 9.4E+00                                                                          | —                                        | —                                            | —                                        | —                                            | 4.7E-01                                                                             | 6.1E-02                                                                       | 1.0E+02                                                                             | 1.3E+01                                                                       |
| Chloro-2-propanol, 1-                                      | 127-00-4   | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chloro-3-methylphenol, 4-                                  | 59-50-7    | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chloroaniline, p-                                          | 106-47-8   | 4.6E-03                                  | 4.6E-01                                      | 9.8E-02                                  | 9.8E+00                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | 1.0E-02                                  | 1.0E+00                                      | 2.9E-01                                  | 2.9E+01                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chlorobenzene                                              | 108-90-7   | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                                   | —                                                                                | 1.2E+03                                                                             | 1.5E+02                                                                          | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                   | —                                                                             | 1.6E+03                                                                             | 2.1E+02                                                                       |
| Chlorobenzilate                                            | 510-15-6   | 3.4E-03                                  | 3.4E-01                                      | 4.9E-01                                  | 4.9E+01                                      | 7.0E+03                                                                             | 9.0E+02                                                                          | —                                                                                   | —                                                                                | 7.6E-03                                  | 7.6E-01                                      | 1.5E+00                                  | 1.5E+02                                      | 1.2E+04                                                                             | 1.5E+03                                                                       | —                                                                                   | —                                                                             |
| Chlorobromomethane (bromochloromethane)                    | 74-97-5    | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chlorodifluoromethane                                      | 75-45-6    | —                                        | —                                            | —                                        | —                                            | —                                                                                   | —                                                                                | 1.7E+05                                                                             | 2.2E+04                                                                          | —                                        | —                                            | —                                        | —                                            | —                                                                                   | —                                                                             | 2.4E+05                                                                             | 3.1E+04                                                                       |
| Chloroethane (ethyl chloride)                              | 75-00-3    | —                                        | —                                            | 9.8E+00                                  | 9.8E+02                                      | —                                                                                   | —                                                                                | 1.2E+05                                                                             | 1.5E+04                                                                          | —                                        | —                                            | 2.9E+01                                  | 2.9E+03                                      | —                                                                                   | —                                                                             | 1.6E+05                                                                             | 2.1E+04                                                                       |
| Chloroethanol, 2-                                          | 107-07-3   | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether)          | 110-75-8   | 8.3E-04                                  | 8.3E-02                                      | 4.9E-02                                  | 4.9E+00                                      | —                                                                                   | —                                                                                | 2.0E+01                                                                             | 2.5E+00                                                                          | 1.9E-03                                  | 1.9E-01                                      | 1.5E-01                                  | 1.5E+01                                      | —                                                                                   | —                                                                             | 2.7E+01                                                                             | 3.5E+00                                                                       |
| Chloroform <sup>3</sup>                                    | 67-66-3    | —                                        | —                                            | 2.4E-01                                  | 2.4E+01                                      | 2.0E+01                                                                             | 2.6E+00                                                                          | 1.9E+03                                                                             | 2.5E+02                                                                          | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | 3.3E+01                                                                             | 4.3E+00                                                                       | 2.7E+03                                                                             | 3.4E+02                                                                       |
| Chlorohexane, 1-                                           | 544-10-5   | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                                                   | —                                                                                | 7.3E+03                                                                             | 9.4E+02                                                                          | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                                                   | —                                                                             | 1.0E+04                                                                             | 1.3E+03                                                                       |
| Chloromethane (methyl chloride)                            | 74-87-3    | 7.0E-02                                  | 7.0E+00                                      | 8.8E-02                                  | 8.8E+00                                      | 3.6E+01                                                                             | 4.7E+00                                                                          | 2.5E+02                                                                             | 3.2E+01                                                                          | 1.6E-01                                  | 1.6E+01                                      | 2.6E-01                                  | 2.6E+01                                      | 6.1E+01                                                                             | 7.9E+00                                                                       | 3.5E+02                                                                             | 4.5E+01                                                                       |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-)          | 90-13-1    | —                                        | —                                            | 2.0E+00                                  | 2.0E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 5.8E+00                                  | 5.8E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chloronaphthalene, 2- (chloronaphthalene, beta)            | 91-58-7    | —                                        | —                                            | 2.0E+00                                  | 2.0E+02                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 5.8E+00                                  | 5.8E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)           | 100-00-5   | 1.4E-01                                  | 1.4E+01                                      | 2.4E-02                                  | 2.4E+00                                      | —                                                                                   | —                                                                                | 7.6E+02                                                                             | 9.9E+01                                                                          | 3.2E-01                                  | 3.2E+01                                      | 7.3E-02                                  | 7.3E+00                                      | —                                                                                   | —                                                                             | 1.1E+03                                                                             | 1.4E+02                                                                       |
| Chlorophenol, 2-                                           | 95-57-8    | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                                   | —                                                                                | —                                                                                   | —                                                                                | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | Residential                              |                                              |                                          |                                              |                                                                                      |                                                                               |                                                                                      |                                                                               | Commercial/Industrial                    |                                              |                                          |                                              |                                                                                      |                                                                               |                                                                                      |                                                                               |
|----------------------------------------------------|------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                    |            | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                         |                                                                               | Noncarcinogenic                                                                      |                                                                               | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                         |                                                                               | Noncarcinogenic                                                                      |                                                                               |
|                                                    |            | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| Chlorophenol, 3-                                   | 108-43-0   | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Chlorophenol, 4-                                   | 106-48-9   | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Chlorophenyl phenylether, 4-                       | 7005-72-3  | 6.1E-05                                  | 6.1E-03                                      | —                                        | —                                            | 1.2E+00                                                                              | 1.6E-01                                                                       | —                                                                                    | —                                                                             | 1.4E-04                                  | 1.4E-02                                      | —                                        | —                                            | 2.1E+00                                                                              | 2.7E-01                                                                       | —                                                                                    | —                                                                             |
| Chloropropane, 2-                                  | 75-29-6    | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | 4.7E+02                                                                              | 6.0E+01                                                                       | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                                    | —                                                                             | 6.5E+02                                                                              | 8.5E+01                                                                       |
| Chlorothalonil                                     | 1897-45-6  | 8.3E-02                                  | 8.3E+00                                      | 3.7E-01                                  | 3.7E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 1.9E-01                                  | 1.9E+01                                      | 1.1E+00                                  | 1.1E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Chlorotoluene, o- (2-chlorotoluene)                | 95-49-8    | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                                    | —                                                                             | 2.4E+04                                                                              | 3.1E+03                                                                       | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | 3.3E+04                                                                              | 4.3E+03                                                                       |
| Chlorotoluene, p- (4-chlorotoluene)                | 106-43-4   | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Chlorpyrifos                                       | 2921-88-2  | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Chromium (III)                                     | 16065-83-1 | —                                        | —                                            | 3.7E+01                                  | 3.7E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.1E+02                                  | 1.1E+04                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Chromium (total)                                   | 7440-47-3  | —                                        | —                                            | 3.7E+01                                  | 3.7E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.1E+02                                  | 1.1E+04                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Chromium (VI)                                      | 18540-29-9 | —                                        | —                                            | 7.6E-02                                  | 7.6E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.3E-01                                  | 2.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Chrysene                                           | 218-01-9   | 9.1E-01                                  | 9.1E+01                                      | —                                        | —                                            | 8.6E+05                                                                              | 1.1E+05                                                                       | —                                                                                    | —                                                                             | 2.0E+00                                  | 2.0E+02                                      | —                                        | —                                            | 1.0E+06                                                                              | 1.9E+05                                                                       | —                                                                                    | —                                                                             |
| Cobalt                                             | 7440-48-4  | —                                        | —                                            | 2.4E-01                                  | 2.4E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Copolymer acrylamide                               | 69418-26-4 | —                                        | —                                            | 4.9E-03                                  | 4.9E-01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E-02                                  | 1.5E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Copper                                             | 7440-50-8  | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.1E+00                                  | 7.1E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Coronene                                           | 191-07-1   | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Coumaphos                                          | 56-72-4    | —                                        | —                                            | 1.7E-01                                  | 1.7E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 5.1E-01                                  | 5.1E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cresol                                             | 1319-77-3  | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cresol, m- (3-methylphenol)                        | 108-39-4   | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cresol, o- (2-methylphenol)                        | 95-48-7    | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cresol, p- (4-methylphenol)                        | 106-44-5   | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Crotonaldehyde                                     | 123-73-9   | 4.8E-04                                  | 4.8E-02                                      | 2.4E-02                                  | 2.4E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 1.1E-03                                  | 1.1E-01                                      | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cumene (isopropylbenzene)                          | 98-82-8    | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | 4.4E+03                                                                              | 5.7E+02                                                                       | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | 6.2E+03                                                                              | 8.0E+02                                                                       |
| Cyanazine                                          | 21725-46-2 | 1.1E-03                                  | 1.1E-01                                      | 4.9E-02                                  | 4.9E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 2.4E-03                                  | 2.4E-01                                      | 1.5E-01                                  | 1.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cyanide                                            | 57-12-5    | —                                        | —                                            | 1.5E-02                                  | 1.5E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 4.4E-02                                  | 4.4E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cyanogen                                           | 460-19-5   | —                                        | —                                            | 2.4E-02                                  | 2.4E+00                                      | —                                                                                    | —                                                                             | 7.3E+00                                                                              | 9.4E-01                                                                       | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | 1.0E+01                                                                              | 1.3E+00                                                                       |
| Cycloate                                           | 1134-23-2  | —                                        | —                                            | 1.3E+00                                  | 1.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 4.0E+00                                  | 4.0E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cyclohexane                                        | 110-82-7   | —                                        | —                                            | 1.2E+02                                  | 1.2E+04                                      | —                                                                                    | —                                                                             | 5.9E+03                                                                              | 7.7E+02                                                                       | —                                        | —                                            | 3.7E+02                                  | 3.7E+04                                      | —                                                                                    | —                                                                             | 8.3E+03                                                                              | 1.1E+03                                                                       |
| Cyclohexanol                                       | 108-93-0   | —                                        | —                                            | 1.2E+02                                  | 1.2E+04                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E+02                                  | 3.7E+04                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cyclohexanone                                      | 108-94-1   | —                                        | —                                            | 1.2E+02                                  | 1.2E+04                                      | —                                                                                    | —                                                                             | 1.0E+06                                                                              | 1.8E+05                                                                       | —                                        | —                                            | 3.7E+02                                  | 3.7E+04                                      | —                                                                                    | —                                                                             | 1.0E+06                                                                              | 2.5E+05                                                                       |
| Cyclohexene, 1-methanol-3-                         | 1679-51-2  | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cyclohexene, 4-vinyl-1-                            | 100-40-3   | —                                        | —                                            | 5.4E-01                                  | 5.4E+01                                      | —                                                                                    | —                                                                             | 1.1E+03                                                                              | 1.4E+02                                                                       | —                                        | —                                            | 1.6E+00                                  | 1.6E+02                                      | —                                                                                    | —                                                                             | 1.5E+03                                                                              | 2.0E+02                                                                       |
| Cyclopentane                                       | 287-92-3   | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | 3.7E+04                                                                              | 4.8E+03                                                                       | —                                        | —                                            | 4.4E+00                                  | 4.4E+02                                      | —                                                                                    | —                                                                             | 5.1E+04                                                                              | 6.7E+03                                                                       |
| Cyclopentane, methyl-                              | 96-37-7    | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | 6.8E+02                                                                              | 8.8E+01                                                                       | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | 9.5E+02                                                                              | 1.2E+02                                                                       |
| Cyclopentene                                       | 142-29-0   | —                                        | —                                            | 1.2E+02                                  | 1.2E+04                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E+02                                  | 3.7E+04                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cyclotetramethylenetetranitramine (HMX)            | 2691-41-0  | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cyclotrimethylenetrinitramine (RDX)                | 121-82-4   | 1.1E-02                                  | 1.1E+00                                      | 9.8E-02                                  | 9.8E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 2.6E-02                                  | 2.6E+00                                      | 2.9E-01                                  | 2.9E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cymene (isopropyltoluene)                          | 99-87-6    | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Cymoxanil                                          | 57966-95-7 | —                                        | —                                            | 3.2E-01                                  | 3.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 9.5E-01                                  | 9.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Dacthal (DCPA)                                     | 1861-32-1  | —                                        | —                                            | 2.4E-01                                  | 2.4E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)  | 75-99-0    | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| DDD                                                | 72-54-8    | 3.8E-03                                  | 3.8E-01                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 8.5E-03                                  | 8.5E-01                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| DDE                                                | 72-55-9    | 2.7E-03                                  | 2.7E-01                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 6.0E-03                                  | 6.0E-01                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| DDT                                                | 50-29-3    | 2.7E-03                                  | 2.7E-01                                      | 1.2E-02                                  | 1.2E+00                                      | 6.2E+02                                                                              | 8.1E+01                                                                       | —                                                                                    | —                                                                             | 6.0E-03                                  | 6.0E-01                                      | 3.7E-02                                  | 3.7E+00                                      | 1.0E+03                                                                              | 1.4E+02                                                                       | —                                                                                    | —                                                                             |
| Demeton                                            | 8065-48-3  | —                                        | —                                            | 9.8E-04                                  | 9.8E-02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.9E-03                                  | 2.9E-01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Desethylatrazine                                   | 6190-65-4  | —                                        | —                                            | 8.6E-01                                  | 8.6E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.6E+00                                  | 2.6E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone) | 123-42-2   | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Diallate                                           | 2303-16-4  | 1.5E-02                                  | 1.5E+00                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 3.4E-02                                  | 3.4E+00                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Diazinon                                           | 333-41-5   | —                                        | —                                            | 2.2E-02                                  | 2.2E+00                                      | —                                                                                    | —                                                                             | 4.0E+03                                                                              | 5.2E+02                                                                       | —                                        | —                                            | 6.6E-02                                  | 6.6E+00                                      | —                                                                                    | —                                                                             | 5.6E+03                                                                              | 7.2E+02                                                                       |
| Dibenz(a,h)acridine                                | 226-36-8   | 7.6E-04                                  | 7.6E-02                                      | —                                        | —                                            | 8.1E+03                                                                              | 1.1E+03                                                                       | —                                                                                    | —                                                                             | 1.7E-03                                  | 1.7E-01                                      | —                                        | —                                            | 1.4E+04                                                                              | 1.8E+03                                                                       | —                                                                                    | —                                                                             |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

Last Revised: February 6, 2025

| Chemical of Concern                                      | CAS        | Residential                              |                                              |                                          |                                              |                                                                       |                                                                    |                                                                       |                                                                    | Commercial/Industrial                    |                                              |                                          |                                              |                                                                       |                                                                    |                                                                       |                                                                    |
|----------------------------------------------------------|------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                          |            | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                          |                                                                    | Noncarcinogenic                                                       |                                                                    | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                          |                                                                    | Noncarcinogenic                                                       |                                                                    |
|                                                          |            | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Int-V</sub> <sup>1</sup><br>0.5 acre source area<br>(mg/L) | AirGW <sub>Int-V</sub> <sup>30</sup><br>acre source area<br>(mg/L) | AirGW <sub>Int-V</sub> <sup>1</sup><br>0.5 acre source area<br>(mg/L) | AirGW <sub>Int-V</sub> <sup>30</sup><br>acre source area<br>(mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Int-V</sub> <sup>1</sup><br>0.5 acre source area<br>(mg/L) | AirGW <sub>Int-V</sub> <sup>30</sup><br>acre source area<br>(mg/L) | AirGW <sub>Int-V</sub> <sup>1</sup><br>0.5 acre source area<br>(mg/L) | AirGW <sub>Int-V</sub> <sup>30</sup><br>acre source area<br>(mg/L) |
| Dibenz(a,j)acridine                                      | 224-42-0   | 1.3E-03                                  | 1.3E-01                                      | —                                        | —                                            | 1.0E+04                                                               | 1.3E+03                                                            | —                                                                     | —                                                                  | 2.8E-03                                  | 2.8E-01                                      | —                                        | —                                            | 1.7E+04                                                               | 2.2E+03                                                            | —                                                                     | —                                                                  |
| Dibenz-a,h-anthracene                                    | 53-70-3    | 9.1E-04                                  | 9.1E-02                                      | —                                        | —                                            | 1.5E+03                                                               | 2.0E+02                                                            | —                                                                     | —                                                                  | 2.0E-03                                  | 2.0E-01                                      | —                                        | —                                            | 2.6E+03                                                               | 3.3E+02                                                            | —                                                                     | —                                                                  |
| Dibenzo(a,e)pyrene                                       | 192-65-4   | 1.3E-04                                  | 1.3E-02                                      | —                                        | —                                            | 1.0E+03                                                               | 1.3E+02                                                            | —                                                                     | —                                                                  | 2.8E-04                                  | 2.8E-02                                      | —                                        | —                                            | 1.7E+03                                                               | 2.2E+02                                                            | —                                                                     | —                                                                  |
| Dibenzo(a,h)pyrene                                       | 189-64-0   | 1.3E-05                                  | 1.3E-03                                      | —                                        | —                                            | 1.0E+02                                                               | 1.3E+01                                                            | —                                                                     | —                                                                  | 2.8E-05                                  | 2.8E-03                                      | —                                        | —                                            | 1.7E+02                                                               | 2.2E+01                                                            | —                                                                     | —                                                                  |
| Dibenzo(a,i)pyrene                                       | 189-55-9   | 1.3E-05                                  | 1.3E-03                                      | —                                        | —                                            | 1.0E+02                                                               | 1.3E+01                                                            | —                                                                     | —                                                                  | 2.8E-05                                  | 2.8E-03                                      | —                                        | —                                            | 1.7E+02                                                               | 2.2E+01                                                            | —                                                                     | —                                                                  |
| Dibenzofuran                                             | 132-64-9   | —                                        | —                                            | 9.8E-02                                  | 9.8E+00                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 2.9E-01                                  | 2.9E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dibenzothiophene                                         | 132-65-0   | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dibromo-3-chloropropane, 1,2-                            | 96-12-8    | 1.1E-03                                  | 1.1E-01                                      | 4.9E-03                                  | 4.9E-01                                      | 6.2E-01                                                               | 8.0E-02                                                            | 3.2E+01                                                               | 4.1E+00                                                            | 2.6E-03                                  | 2.6E-01                                      | 1.5E-02                                  | 1.5E+00                                      | 1.0E+00                                                               | 1.3E-01                                                            | 4.4E+01                                                               | 5.7E+00                                                            |
| Dibromochloromethane (chlorodibromomethane) <sup>3</sup> | 124-48-1   | 1.1E-02                                  | 1.1E+00                                      | 4.9E-01                                  | 4.9E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | 2.4E-02                                  | 2.4E+00                                      | 1.5E+00                                  | 1.5E+02                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dibromofluoromethane                                     | 1868-53-7  | —                                        | —                                            | 4.9E+00                                  | 4.9E+02                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dicamba                                                  | 1918-00-9  | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichlormid                                               | 37764-25-3 | —                                        | —                                            | 6.1E-01                                  | 6.1E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 1.8E+00                                  | 1.8E+02                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichloro-2-butene, 1,4-                                  | 764-41-0   | —                                        | —                                            | —                                        | —                                            | 6.7E-01                                                               | 8.7E-02                                                            | —                                                                     | —                                                                  | —                                        | —                                            | —                                        | —                                            | 1.1E+00                                                               | 1.5E-01                                                            | —                                                                     | —                                                                  |
| Dichloro-2-butene, 1,4- trans                            | 110-57-6   | —                                        | —                                            | —                                        | —                                            | 6.5E-01                                                               | 8.5E-02                                                            | —                                                                     | —                                                                  | —                                        | —                                            | —                                        | —                                            | 1.1E+00                                                               | 1.4E-01                                                            | —                                                                     | —                                                                  |
| Dichlorobenzene, 1,2-                                    | 95-50-1    | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                     | —                                                                  | 1.2E+03                                                               | 1.5E+02                                                            | —                                        | —                                            | 6.6E+00                                  | 6.6E+02                                      | —                                                                     | —                                                                  | 1.6E+03                                                               | 2.1E+02                                                            |
| Dichlorobenzene, 1,3-                                    | 541-73-1   | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                     | —                                                                  | 1.9E+02                                                               | 2.5E+01                                                            | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                     | —                                                                  | 2.7E+02                                                               | 3.4E+01                                                            |
| Dichlorobenzene, 1,4-                                    | 106-46-7   | 3.8E-02                                  | 3.8E+00                                      | —                                        | —                                            | —                                                                     | —                                                                  | 1.7E+04                                                               | 2.2E+03                                                            | 8.5E-02                                  | 8.5E+00                                      | —                                        | —                                            | —                                                                     | —                                                                  | 2.4E+04                                                               | 3.1E+03                                                            |
| Dichlorobenzidine, 3,3'-                                 | 91-94-1    | 2.0E-03                                  | 2.0E-01                                      | —                                        | —                                            | —                                                                     | —                                                                  | —                                                                     | —                                                                  | 4.5E-03                                  | 4.5E-01                                      | —                                        | —                                            | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichlorobutane, 2,3-                                     | 7581-97-7  | —                                        | —                                            | 2.4E-01                                  | 2.4E+01                                      | —                                                                     | —                                                                  | 1.4E+02                                                               | 1.9E+01                                                            | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                     | —                                                                  | 2.0E+02                                                               | 2.6E+01                                                            |
| Dichlorodifluoromethane                                  | 75-71-8    | —                                        | —                                            | 4.9E+00                                  | 4.9E+02                                      | —                                                                     | —                                                                  | 6.0E+01                                                               | 7.8E+00                                                            | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                     | —                                                                  | 8.4E+01                                                               | 1.1E+01                                                            |
| Dichloroethane, 1,1-                                     | 75-34-3    | —                                        | —                                            | 4.9E+00                                  | 4.9E+02                                      | —                                                                     | —                                                                  | 4.3E+04                                                               | 5.6E+03                                                            | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                     | —                                                                  | 6.0E+04                                                               | 7.8E+03                                                            |
| Dichloroethane, 1,2-                                     | 107-06-2   | 1.0E-02                                  | 1.0E+00                                      | 1.9E+00                                  | 1.9E+02                                      | 2.5E+02                                                               | 3.3E+01                                                            | 1.6E+03                                                               | 2.1E+02                                                            | 2.2E-02                                  | 2.2E+00                                      | 5.7E+00                                  | 5.7E+02                                      | 4.2E+02                                                               | 5.5E+01                                                            | 2.3E+03                                                               | 2.9E+02                                                            |
| Dichloroethylene, 1,1-                                   | 75-35-4    | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                     | —                                                                  | 1.7E+03                                                               | 2.2E+02                                                            | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                                     | —                                                                  | 2.3E+03                                                               | 3.0E+02                                                            |
| Dichloroethylene, cis-1,2-                               | 156-59-2   | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                                     | —                                                                  | 1.2E+03                                                               | 1.6E+02                                                            | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                     | —                                                                  | 1.7E+03                                                               | 2.2E+02                                                            |
| Dichloroethylene, trans-1,2                              | 156-60-5   | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                     | —                                                                  | 7.7E+02                                                               | 9.9E+01                                                            | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                     | —                                                                  | 1.1E+03                                                               | 1.4E+02                                                            |
| Dichlorofluoromethane                                    | 75-43-4    | —                                        | —                                            | 4.9E+00                                  | 4.9E+02                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichlorophenol, 2,3-                                     | 576-24-9   | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichlorophenol, 2,4-                                     | 120-83-2   | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichlorophenol, 2,5-                                     | 583-78-8   | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichlorophenol, 2,6-                                     | 87-65-0    | —                                        | —                                            | 2.4E-02                                  | 2.4E+00                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichlorophenol, 3,4-                                     | 95-77-2    | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichlorophenol, 3,5-                                     | 591-35-5   | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)          | 94-82-6    | —                                        | —                                            | 2.0E-01                                  | 2.0E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 5.8E-01                                  | 5.8E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)                 | 94-75-7    | —                                        | —                                            | 4.9E+00                                  | 4.9E+02                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid)    | 120-36-5   | —                                        | —                                            | 2.4E-01                                  | 2.4E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichloropropane, 1,2-                                    | 78-87-5    | 2.5E-02                                  | 2.5E+00                                      | 3.2E+00                                  | 3.2E+02                                      | 7.4E+02                                                               | 9.5E+01                                                            | 1.2E+02                                                               | 1.5E+01                                                            | 5.5E-02                                  | 5.5E+00                                      | 9.5E+00                                  | 9.5E+02                                      | 1.2E+03                                                               | 1.6E+02                                                            | 1.6E+02                                                               | 2.1E+01                                                            |
| Dichloropropane, 1,3-                                    | 142-28-9   | 9.1E-03                                  | 9.1E-01                                      | 4.9E-01                                  | 4.9E+01                                      | 2.5E+02                                                               | 3.3E+01                                                            | 8.7E+02                                                               | 1.1E+02                                                            | 2.0E-02                                  | 2.0E+00                                      | 1.5E+00                                  | 1.5E+02                                      | 4.3E+02                                                               | 5.5E+01                                                            | 1.2E+03                                                               | 1.6E+02                                                            |
| Dichloropropane, 2,2-                                    | 594-20-7   | 1.3E-02                                  | 1.3E+00                                      | 2.2E+00                                  | 2.2E+02                                      | —                                                                     | —                                                                  | 5.7E+01                                                               | 7.3E+00                                                            | 3.0E-02                                  | 3.0E+00                                      | 6.6E+00                                  | 6.6E+02                                      | —                                                                     | —                                                                  | 7.9E+01                                                               | 1.0E+01                                                            |
| Dichloropropanol, 2,3-                                   | 616-23-9   | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dichloropropene, 1,1-                                    | 563-58-6   | 9.1E-03                                  | 9.1E-01                                      | 7.3E-01                                  | 7.3E+01                                      | 1.9E+01                                                               | 2.5E+00                                                            | 6.6E+01                                                               | 8.5E+00                                                            | 2.0E-02                                  | 2.0E+00                                      | 2.2E+00                                  | 2.2E+02                                      | 3.2E+01                                                               | 4.2E+00                                                            | 9.2E+01                                                               | 1.2E+01                                                            |
| Dichloropropene, 1,3- (mixed isomers)                    | 542-75-6   | 9.1E-03                                  | 9.1E-01                                      | 7.3E-01                                  | 7.3E+01                                      | 1.8E+02                                                               | 2.3E+01                                                            | 6.1E+02                                                               | 7.9E+01                                                            | 2.0E-02                                  | 2.0E+00                                      | 2.2E+00                                  | 2.2E+02                                      | 3.0E+02                                                               | 3.8E+01                                                            | 8.5E+02                                                               | 1.1E+02                                                            |
| Dichloropropene, cis 1,3-                                | 10061-01-5 | 1.7E-03                                  | 1.7E-01                                      | 2.4E-03                                  | 2.4E-01                                      | —                                                                     | —                                                                  | 6.9E+02                                                               | 8.9E+01                                                            | 3.8E-03                                  | 3.8E-01                                      | 7.3E-03                                  | 7.3E-01                                      | —                                                                     | —                                                                  | 9.7E+02                                                               | 1.2E+02                                                            |
| Dichloropropene, trans 1,3-                              | 10061-02-6 | 9.1E-03                                  | 9.1E-01                                      | 7.3E-01                                  | 7.3E+01                                      | 1.9E+02                                                               | 2.5E+01                                                            | 6.5E+02                                                               | 8.4E+01                                                            | 2.0E-02                                  | 2.0E+00                                      | 2.2E+00                                  | 2.2E+02                                      | 3.2E+02                                                               | 4.1E+01                                                            | 9.1E+02                                                               | 1.2E+02                                                            |
| Dichlorvos                                               | 62-73-7    | 3.1E-03                                  | 3.1E-01                                      | 1.2E-02                                  | 1.2E+00                                      | —                                                                     | —                                                                  | 1.0E+04                                                               | 1.3E+03                                                            | 7.0E-03                                  | 7.0E-01                                      | 3.7E-02                                  | 3.7E+00                                      | —                                                                     | —                                                                  | 1.4E+04                                                               | 1.8E+03                                                            |
| Dicrotophos (bidrin)                                     | 141-66-2   | —                                        | —                                            | 2.4E-03                                  | 2.4E-01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Dicyclopentadiene                                        | 77-73-6    | —                                        | —                                            | 2.0E+00                                  | 2.0E+02                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 5.8E+00                                  | 5.8E+02                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Diendrin                                                 | 60-57-1    | 5.7E-05                                  | 5.7E-03                                      | 1.2E-03                                  | 1.2E-01                                      | 1.3E+02                                                               | 1.6E+01                                                            | —                                                                     | —                                                                  | 1.3E-04                                  | 1.3E-02                                      | 3.7E-03                                  | 3.7E-01                                      | 2.1E+02                                                               | 2.8E+01                                                            | —                                                                     | —                                                                  |
| Diethanolamine                                           | 111-42-2   | —                                        | —                                            | 1.2E-02                                  | 1.2E+00                                      | —                                                                     | —                                                                  | 1.0E+06                                                               | 1.0E+06                                                            | —                                        | —                                            | 3.7E-02                                  | 3.7E+00                                      | —                                                                     | —                                                                  | 1.0E+06                                                               | 1.0E+06                                                            |
| Diethyldithiocarbamate, sodium salt                      | 148-18-5   | 3.4E-03                                  | 3.4E-01                                      | 7.3E-01                                  | 7.3E+01                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | 7.6E-03                                  | 7.6E-01                                      | 2.2E+00                                  | 2.2E+02                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |
| Diethyl phthalate                                        | 84-66-2    | —                                        | —                                            | 2.0E+01                                  | 2.0E+03                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  | —                                        | —                                            | 5.8E+01                                  | 5.8E+03                                      | —                                                                     | —                                                                  | —                                                                     | —                                                                  |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                           | CAS        | Residential                               |                                              |                                           |                                              |                                                                                      |                                                                                   |                                                                                      |                                                                                   | Commercial/Industrial                     |                                              |                                           |                                              |                                                                                      |                                                                                |                                                                                      |                                                                                |
|---------------------------------------------------------------|------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                                               |            | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                                         |                                                                                   | Noncarcinogenic                                                                      |                                                                                   | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                                         |                                                                                | Noncarcinogenic                                                                      |                                                                                |
|                                                               |            | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>30</sup><br>acre source<br>area<br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>30</sup><br>acre source<br>area<br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| Diethylene glycol                                             | 111-46-6   | —                                         | —                                            | 4.9E+01                                   | 4.9E+03                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.5E+02                                   | 1.5E+04                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Diethylene glycol monobutyl ether                             | 112-34-5   | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                                    | —                                                                                 | 3.2E+03                                                                              | 4.1E+02                                                                           | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                                    | —                                                                              | 4.5E+03                                                                              | 5.8E+02                                                                        |
| Diethylhexyl adipate                                          | 103-23-1   | 7.6E-01                                   | 7.6E+01                                      | 1.5E+01                                   | 1.5E+03                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | 1.7E+00                                   | 1.7E+02                                      | 4.4E+01                                   | 4.4E+03                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Diethylstilbestrol                                            | 56-53-1    | 1.9E-07                                   | 1.9E-05                                      | —                                         | —                                            | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | 4.3E-07                                   | 4.3E-05                                      | —                                         | —                                            | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)                   | 107-39-1   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                                    | —                                                                                 | 2.3E+01                                                                              | 3.0E+00                                                                           | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                                    | —                                                                              | 3.2E+01                                                                              | 4.2E+00                                                                        |
| Diisopropylbenzene, p-                                        | 100-18-5   | —                                         | —                                            | 2.4E-01                                   | 2.4E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Diisopropyl ether (2,2'-oxybis-propane)                       | 108-20-3   | —                                         | —                                            | 2.4E+00                                   | 2.4E+02                                      | —                                                                                    | —                                                                                 | 2.0E+04                                                                              | 2.5E+03                                                                           | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                                    | —                                                                              | 2.7E+04                                                                              | 3.5E+03                                                                        |
| Dimethenamid                                                  | 87674-68-8 | —                                         | —                                            | 3.7E-01                                   | 3.7E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.1E+00                                   | 1.1E+02                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dimethoate                                                    | 60-51-5    | —                                         | —                                            | 4.9E-03                                   | 4.9E-01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.5E-02                                   | 1.5E+00                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dimethoxybenzidine, 3,3'-                                     | 119-90-4   | 6.5E-02                                   | 6.5E+00                                      | —                                         | —                                            | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | 1.5E-01                                   | 1.5E+01                                      | —                                         | —                                            | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dimethyl-2-nitrobenzene, 1,3-                                 | 81-20-9    | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                                    | —                                                                                 | 1.1E+04                                                                              | 1.4E+03                                                                           | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                              | 1.5E+04                                                                              | 2.0E+03                                                                        |
| Dimethyl-3-nitrobenzene, 1,2-                                 | 83-41-0    | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                                    | —                                                                                 | 1.3E+04                                                                              | 1.7E+03                                                                           | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                              | 1.9E+04                                                                              | 2.4E+03                                                                        |
| Dimethyl-4-nitrobenzene, 1-2-                                 | 99-51-4    | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                                    | —                                                                                 | 1.5E+04                                                                              | 1.9E+03                                                                           | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                              | 2.1E+04                                                                              | 2.7E+03                                                                        |
| Dimethyl-5-nitrobenzene, 1,3-                                 | 99-12-7    | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                                    | —                                                                                 | 9.5E+03                                                                              | 1.2E+03                                                                           | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                              | 1.3E+04                                                                              | 1.7E+03                                                                        |
| Dimethylphenethylamine, alpha, alpha-                         | 122-09-8   | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dimethyl phenol, 2,4-                                         | 105-67-9   | —                                         | —                                            | 4.9E-01                                   | 4.9E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dimethylaminoazobenzene, p-                                   | 60-11-7    | —                                         | —                                            | 2.4E-04                                   | 2.4E-02                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 7.3E-04                                   | 7.3E-02                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dimethylbenz-a-anthracene, 7,12-                              | 57-97-6    | 3.7E-06                                   | 3.7E-04                                      | —                                         | —                                            | 3.3E+01                                                                              | 4.3E+00                                                                           | —                                                                                    | —                                                                                 | 8.2E-06                                   | 8.2E-04                                      | —                                         | —                                            | 5.5E+01                                                                              | 7.2E+00                                                                        | —                                                                                    | —                                                                              |
| Dimethylbenzidine, 3,3'-                                      | 119-93-7   | 8.3E-05                                   | 8.3E-03                                      | —                                         | —                                            | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | 1.9E-04                                   | 1.9E-02                                      | —                                         | —                                            | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dimethylformamide, N,N-                                       | 68-12-2    | —                                         | —                                            | 2.4E+00                                   | 2.4E+02                                      | —                                                                                    | —                                                                                 | 3.7E+05                                                                              | 4.8E+04                                                                           | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                                    | —                                                                              | 5.2E+05                                                                              | 6.8E+04                                                                        |
| Dimethylnaphthalene, 1,3-                                     | 575-41-7   | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dimethylphthalate                                             | 131-11-3   | —                                         | —                                            | 2.0E+01                                   | 2.0E+03                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 5.8E+01                                   | 5.8E+03                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Di-n-butyl phthalate                                          | 84-74-2    | —                                         | —                                            | 2.4E+00                                   | 2.4E+02                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)        | 534-52-1   | —                                         | —                                            | 2.4E-03                                   | 2.4E-01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)                   | 99-65-0    | —                                         | —                                            | 2.4E-03                                   | 2.4E-01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dinitrobenzene, 1,4-                                          | 100-25-4   | —                                         | —                                            | 2.4E-03                                   | 2.4E-01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dinitrophenol, 2,4-                                           | 51-28-5    | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dinitrophenol, 2,5-                                           | 329-71-5   | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dinitrotoluene, 2,4-                                          | 121-14-2   | 1.3E-03                                   | 1.3E-01                                      | 4.9E-02                                   | 4.9E+00                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | 3.0E-03                                   | 3.0E-01                                      | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dinitrotoluene, 2,6-                                          | 606-20-2   | 1.3E-03                                   | 1.3E-01                                      | 2.4E-02                                   | 2.4E+00                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | 3.0E-03                                   | 3.0E-01                                      | 7.3E-02                                   | 7.3E+00                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Di-n-octyl phthalate                                          | 117-84-0   | —                                         | —                                            | 2.4E-01                                   | 2.4E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dimoseb                                                       | 88-85-7    | —                                         | —                                            | 2.4E-02                                   | 2.4E+00                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 7.3E-02                                   | 7.3E+00                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dioxane 1,4-                                                  | 123-91-1   | 9.1E-03                                   | 9.1E-01                                      | 7.3E-01                                   | 7.3E+01                                      | 7.7E+03                                                                              | 1.0E+03                                                                           | 1.8E+05                                                                              | 2.3E+04                                                                           | 2.0E-02                                   | 2.0E+00                                      | 2.2E+00                                   | 2.2E+02                                      | 1.3E+04                                                                              | 1.7E+03                                                                        | 2.5E+05                                                                              | 3.3E+04                                                                        |
| Dioxin (as 2,3,7,8-TCDD toxicity equivalent quotients (TEQs)) | 1746-01-6  | —                                         | —                                            | 1.7E-08                                   | 1.7E-06                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 5.1E-08                                   | 5.1E-06                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Diphenyl ether                                                | 101-84-8   | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 4.5E-01                                   | 4.5E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Diphenylamine                                                 | 122-39-4   | —                                         | —                                            | 6.1E-01                                   | 6.1E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.8E+00                                   | 1.8E+02                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Diphenylhydrazine, 1,2-                                       | 122-66-7   | 1.1E-03                                   | 1.1E-01                                      | —                                         | —                                            | 3.8E+03                                                                              | 4.9E+02                                                                           | —                                                                                    | —                                                                                 | 2.6E-03                                   | 2.6E-01                                      | —                                         | —                                            | 6.4E+03                                                                              | 8.3E+02                                                                        | —                                                                                    | —                                                                              |
| Dipropylene glycol                                            | 110-98-5   | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 8.8E+00                                   | 8.8E+02                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Diquat                                                        | 85-00-7    | —                                         | —                                            | 5.4E-02                                   | 5.4E+00                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.6E-01                                   | 1.6E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)   | 142-73-4   | —                                         | —                                            | 2.4E-01                                   | 2.4E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Disulfoton                                                    | 298-04-4   | —                                         | —                                            | 9.8E-04                                   | 9.8E-02                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 2.9E-03                                   | 2.9E-01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Diuron                                                        | 330-54-1   | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Dodecylphenol, 4-                                             | 104-43-8   | —                                         | —                                            | 1.2E+00                                   | 1.2E+02                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Endosulfan                                                    | 115-29-7   | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 4.4E-01                                   | 4.4E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Endosulfan I                                                  | 959-98-8   | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Endosulfan II                                                 | 33213-65-9 | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 4.4E-01                                   | 4.4E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Endosulfan sulfate                                            | 1031-07-8  | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 4.4E-01                                   | 4.4E+01                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Endothall                                                     | 145-73-3   | —                                         | —                                            | 4.9E-01                                   | 4.9E+01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Endrin                                                        | 72-20-8    | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 2.2E-02                                   | 2.2E+00                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |
| Endrin aldehyde                                               | 7421-93-4  | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                                    | —                                                                                 | —                                                                                    | —                                                                                 | —                                         | —                                            | 2.2E-02                                   | 2.2E+00                                      | —                                                                                    | —                                                                              | —                                                                                    | —                                                                              |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | Residential                               |                                              |                                           |                                              |                                                                         |                                                                           |                                                                         |                                                                           | Commercial/Industrial                     |                                              |                                           |                                              |                                                                         |                                                                        |                                                                         |                                                                        |
|-------------------------------------------------------|------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------|
|                                                       |            | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                            |                                                                           | Noncarcinogenic                                                         |                                                                           | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                            |                                                                        | Noncarcinogenic                                                         |                                                                        |
|                                                       |            | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Intg</sub>-V</sub><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Intg</sub>-V</sub><br>30<br>acre source<br>area<br>(mg/L) | Air <sub>GW<sub>Intg</sub>-V</sub><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Intg</sub>-V</sub><br>30<br>acre source<br>area<br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Intg</sub>-V</sub><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Intg</sub>-V</sub><br>30<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Intg</sub>-V</sub><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Intg</sub>-V</sub><br>30<br>acre source<br>area (mg/L) |
| Endrin ketone                                         | 53494-70-5 | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 2.2E-02                                   | 2.2E+00                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Epichlorohydrin                                       | 106-89-8   | 9.2E-02                                   | 9.2E+00                                      | 1.5E-01                                   | 1.5E+01                                      | 1.4E+04                                                                 | 1.8E+03                                                                   | 7.1E+02                                                                 | 9.1E+01                                                                   | 2.1E-01                                   | 2.1E+01                                      | 4.4E-01                                   | 4.4E+01                                      | 2.3E+04                                                                 | 3.0E+03                                                                | 9.9E+02                                                                 | 1.3E+02                                                                |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate) | 2104-64-5  | —                                         | —                                            | 2.4E-04                                   | 2.4E-02                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 7.3E-04                                   | 7.3E-02                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Esfenvalerate                                         | 66230-04-4 | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethalfuralin (sonolan)                                | 55283-68-6 | 1.0E-02                                   | 1.0E+00                                      | 9.8E-01                                   | 9.8E+01                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | 2.3E-02                                   | 2.3E+00                                      | 2.9E+00                                   | 2.9E+02                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethanol                                               | 64-17-5    | —                                         | —                                            | 8.1E+02                                   | 8.1E+04                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 2.4E+03                                   | 2.4E+05                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethanol, 2-amino-                                     | 141-43-5   | —                                         | —                                            | 4.2E-02                                   | 4.2E+00                                      | —                                                                       | —                                                                         | 4.2E+05                                                                 | 5.5E+04                                                                   | —                                         | —                                            | 1.2E-01                                   | 1.2E+01                                      | —                                                                       | —                                                                      | 5.9E+05                                                                 | 7.7E+04                                                                |
| Ethanol, 2-(2-aminoethoxy)-                           | 929-06-6   | —                                         | —                                            | 1.2E-02                                   | 1.2E+00                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 3.7E-02                                   | 3.7E+00                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethanol, 2-(2-ethoxyethoxy)-                          | 111-90-0   | —                                         | —                                            | 4.9E+01                                   | 4.9E+03                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 1.5E+02                                   | 1.5E+04                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethanol, 2-(methlamino)-                              | 109-83-1   | —                                         | —                                            | 3.9E-01                                   | 3.9E+01                                      | —                                                                       | —                                                                         | 1.0E+06                                                                 | 1.3E+05                                                                   | —                                         | —                                            | 1.2E+00                                   | 1.2E+02                                      | —                                                                       | —                                                                      | 1.0E+06                                                                 | 1.8E+05                                                                |
| Ethion                                                | 563-12-2   | —                                         | —                                            | 1.2E-02                                   | 1.2E+00                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 3.7E-02                                   | 3.7E+00                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethoprop                                              | 13194-48-4 | 3.2E-02                                   | 3.2E+00                                      | 2.4E-03                                   | 2.4E-01                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | 7.3E-02                                   | 7.3E+00                                      | 7.3E-03                                   | 7.3E-01                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethoxy ethanol, 2-                                    | 110-80-5   | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                       | —                                                                         | 1.0E+06                                                                 | 4.3E+05                                                                   | —                                         | —                                            | 6.6E+00                                   | 6.6E+02                                      | —                                                                       | —                                                                      | 1.0E+06                                                                 | 6.1E+05                                                                |
| Ethyl acetate                                         | 141-78-6   | —                                         | —                                            | 2.2E+01                                   | 2.2E+03                                      | —                                                                       | —                                                                         | 5.3E+04                                                                 | 6.9E+03                                                                   | —                                         | —                                            | 6.6E+01                                   | 6.6E+03                                      | —                                                                       | —                                                                      | 7.4E+04                                                                 | 9.6E+03                                                                |
| Ethyl acrylate                                        | 140-88-5   | 1.9E-02                                   | 1.9E+00                                      | 1.2E-01                                   | 1.2E+01                                      | —                                                                       | —                                                                         | 1.1E+03                                                                 | 1.4E+02                                                                   | 4.3E-02                                   | 4.3E+00                                      | 3.7E-01                                   | 3.7E+01                                      | —                                                                       | —                                                                      | 1.5E+03                                                                 | 2.0E+02                                                                |
| Ethyl benzene                                         | 100-41-4   | —                                         | —                                            | 2.4E+00                                   | 2.4E+02                                      | —                                                                       | —                                                                         | 3.0E+04                                                                 | 3.8E+03                                                                   | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                       | —                                                                      | 4.2E+04                                                                 | 5.4E+03                                                                |
| Ethyl dipropylthiocarbamate, S-                       | 759-94-4   | —                                         | —                                            | 6.1E-01                                   | 6.1E+01                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 1.8E+00                                   | 1.8E+02                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethyl ether                                           | 60-29-7    | —                                         | —                                            | 4.9E+00                                   | 4.9E+02                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 1.5E+01                                   | 1.5E+03                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethyl methacrylate                                    | 97-63-2    | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                       | —                                                                         | 5.7E+04                                                                 | 7.4E+03                                                                   | —                                         | —                                            | 6.6E+00                                   | 6.6E+02                                      | —                                                                       | —                                                                      | 8.0E+04                                                                 | 1.0E+04                                                                |
| Ethyl methanesulfonate                                | 62-50-0    | 9.2E-03                                   | 9.2E-01                                      | —                                         | —                                            | 1.9E+04                                                                 | 2.4E+03                                                                   | —                                                                       | —                                                                         | 2.1E-02                                   | 2.1E+00                                      | —                                         | —                                            | 3.1E+04                                                                 | 4.0E+03                                                                | —                                                                       | —                                                                      |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)      | 637-92-3   | —                                         | —                                            | 2.4E-02                                   | 2.4E+00                                      | —                                                                       | —                                                                         | 1.1E+04                                                                 | 1.4E+03                                                                   | —                                         | —                                            | 7.3E-02                                   | 7.3E+00                                      | —                                                                       | —                                                                      | 1.5E+04                                                                 | 2.0E+03                                                                |
| Ethyl-1-hexanol, 2-                                   | 104-76-7   | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 1.1E+01                                   | 1.1E+03                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethyl-2-hexenal, 2-                                   | 645-62-5   | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 1.1E+01                                   | 1.1E+03                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethyl-2-methyl benzene, 1-                            | 611-14-3   | —                                         | —                                            | 1.2E+00                                   | 1.2E+02                                      | —                                                                       | —                                                                         | 9.2E+03                                                                 | 1.2E+03                                                                   | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                       | —                                                                      | 1.3E+04                                                                 | 1.7E+03                                                                |
| Ethyl-4-methyl benzene, 1-                            | 622-96-8   | —                                         | —                                            | 1.2E+00                                   | 1.2E+02                                      | —                                                                       | —                                                                         | 7.0E+03                                                                 | 9.0E+02                                                                   | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                       | —                                                                      | 9.7E+03                                                                 | 1.3E+03                                                                |
| Ethylene*                                             | 74-85-1    | —                                         | —                                            | —                                         | —                                            | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | —                                         | —                                            | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethylene dibromide (dibromoethane, 1,2- )             | 106-93-4   | 4.6E-04                                   | 4.6E-02                                      | 2.2E-01                                   | 2.2E+01                                      | 7.6E+01                                                                 | 9.8E+00                                                                   | 9.6E+03                                                                 | 1.2E+03                                                                   | 1.0E-03                                   | 1.0E-01                                      | 6.6E-01                                   | 6.6E+01                                      | 1.3E+02                                                                 | 1.7E+01                                                                | 1.3E+04                                                                 | 1.7E+03                                                                |
| Ethylene glycol                                       | 107-21-1   | —                                         | —                                            | 4.9E+01                                   | 4.9E+03                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 1.5E+02                                   | 1.5E+04                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethylene oxide                                        | 75-21-8    | 8.9E-04                                   | 8.9E-02                                      | —                                         | —                                            | 3.0E+03                                                                 | 3.9E+02                                                                   | —                                                                       | —                                                                         | 2.0E-03                                   | 2.0E-01                                      | —                                         | —                                            | 5.0E+03                                                                 | 6.5E+02                                                                | —                                                                       | —                                                                      |
| Ethylene thiourea                                     | 96-45-7    | 8.3E-03                                   | 8.3E-01                                      | 2.0E-03                                   | 2.0E-01                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | 1.9E-02                                   | 1.9E+00                                      | 5.8E-03                                   | 5.8E-01                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethylenediamine                                       | 107-15-3   | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 6.6E+00                                   | 6.6E+02                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Ethylenimine                                          | 151-56-4   | 1.4E-05                                   | 1.4E-03                                      | —                                         | —                                            | 1.4E+01                                                                 | 1.8E+00                                                                   | —                                                                       | —                                                                         | 3.1E-05                                   | 3.1E-03                                      | —                                         | —                                            | 2.3E+01                                                                 | 3.0E+00                                                                | —                                                                       | —                                                                      |
| Ethylhexyl acrylate, 2-                               | 103-11-7   | 1.9E-02                                   | 1.9E+00                                      | —                                         | —                                            | —                                                                       | —                                                                         | —                                                                       | —                                                                         | 4.3E-02                                   | 4.3E+00                                      | —                                         | —                                            | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Famphur                                               | 52-85-7    | —                                         | —                                            | 7.3E-04                                   | 7.3E-02                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 2.2E-03                                   | 2.2E-01                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Fensulfothion                                         | 115-90-2   | —                                         | —                                            | 2.4E-02                                   | 2.4E+00                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 7.3E-02                                   | 7.3E+00                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Fenthion                                              | 55-38-9    | —                                         | —                                            | 1.7E-03                                   | 1.7E-01                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 5.1E-03                                   | 5.1E-01                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Fenuron                                               | 101-42-8   | —                                         | —                                            | 1.7E+00                                   | 1.7E+02                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 5.1E+00                                   | 5.1E+02                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Fluoranthene                                          | 206-44-0   | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Fluorene                                              | 86-73-7    | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Fluorine (soluble fluoride)                           | 7782-41-4  | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Fluorochloridone                                      | 61213-25-0 | —                                         | —                                            | 1.8E-01                                   | 1.8E+01                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 5.5E-01                                   | 5.5E+01                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Fonofos                                               | 944-22-9   | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Formaldehyde                                          | 50-00-0    | —                                         | —                                            | 4.9E+00                                   | 4.9E+02                                      | —                                                                       | —                                                                         | 8.6E+04                                                                 | 1.1E+04                                                                   | —                                         | —                                            | 1.5E+01                                   | 1.5E+03                                      | —                                                                       | —                                                                      | 1.2E+05                                                                 | 1.6E+04                                                                |
| Formic acid                                           | 64-18-6    | —                                         | —                                            | 2.2E+01                                   | 2.2E+03                                      | —                                                                       | —                                                                         | 1.7E+04                                                                 | 2.3E+03                                                                   | —                                         | —                                            | 6.6E+01                                   | 6.6E+03                                      | —                                                                       | —                                                                      | 2.4E+04                                                                 | 3.2E+03                                                                |
| Furan                                                 | 110-00-9   | —                                         | —                                            | 2.4E-02                                   | 2.4E+00                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 7.3E-02                                   | 7.3E+00                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Furfural                                              | 98-01-1    | —                                         | —                                            | 7.3E-02                                   | 7.3E+00                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 2.2E-01                                   | 2.2E+01                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Glycidylaldehyde                                      | 765-34-4   | —                                         | —                                            | 9.8E-03                                   | 9.8E-01                                      | —                                                                       | —                                                                         | 1.4E+04                                                                 | 1.9E+03                                                                   | —                                         | —                                            | 2.9E-02                                   | 2.9E+00                                      | —                                                                       | —                                                                      | 2.0E+04                                                                 | 2.6E+03                                                                |
| Glyphosate                                            | 1071-83-6  | —                                         | —                                            | 2.4E+01                                   | 2.4E+03                                      | —                                                                       | —                                                                         | —                                                                       | —                                                                         | —                                         | —                                            | 7.3E+01                                   | 7.3E+03                                      | —                                                                       | —                                                                      | —                                                                       | —                                                                      |
| Heptachlor                                            | 76-44-8    | 2.0E-04                                   | 2.0E-02                                      | 1.2E-02                                   | 1.2E+00                                      | 6.3E+00                                                                 | 8.1E-01                                                                   | —                                                                       | —                                                                         | 4.5E-04                                   | 4.5E-02                                      | 3.7E-02                                   | 3.7E+00                                      | 1.1E+01                                                                 | 1.4E+00                                                                | —                                                                       | —                                                                      |
| Heptachlor epoxide                                    | 1024-57-3  | 1.0E-04                                   | 1.0E-02                                      | 3.2E-04                                   | 3.2E-02                                      | 1.2E+02                                                                 | 1.5E+01                                                                   | —                                                                       | —                                                                         | 2.2E-04                                   | 2.2E-02                                      | 9.5E-04                                   | 9.5E-02                                      | 2.0E+02                                                                 | 2.6E+01                                                                | —                                                                       | —                                                                      |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

Last Revised: February 6, 2025

| Chemical of Concern                               | CAS        | Residential                               |                                              |                                           |                                              |                                                                           |                                                                     |                                                                           |                                                                     | Commercial/Industrial                     |                                              |                                           |                                              |                                                                           |                                                                     |                                                                           |                                                                     |
|---------------------------------------------------|------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|
|                                                   |            | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                              | Noncarcinogenic                                                     | Carcinogenic                                                              | Noncarcinogenic                                                     | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                              | Noncarcinogenic                                                     | Carcinogenic                                                              | Noncarcinogenic                                                     |
|                                                   |            | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| Heptane, n-                                       | 142-82-5   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 8.7E+02                                                                   | 1.1E+02                                                             | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 1.2E+03                                                                   | 1.6E+02                                                             |
| Heptanoic acid, n-                                | 111-14-8   | —                                         | —                                            | 1.2E+01                                   | 1.2E+03                                      | —                                                                         | —                                                                   | 1.7E+04                                                                   | 2.1E+03                                                             | —                                         | —                                            | 3.7E+01                                   | 3.7E+03                                      | —                                                                         | —                                                                   | 2.3E+04                                                                   | 3.0E+03                                                             |
| Hexachlorobenzene                                 | 118-74-1   | 5.7E-04                                   | 5.7E-02                                      | 2.0E-02                                   | 2.0E+00                                      | 5.7E+00                                                                   | 7.4E-01                                                             | —                                                                         | —                                                                   | 1.3E-03                                   | 1.3E-01                                      | 5.8E-02                                   | 5.8E+00                                      | 9.6E+00                                                                   | 1.2E+00                                                             | —                                                                         | —                                                                   |
| Hexachlorobutadiene                               | 87-68-3    | 1.2E-02                                   | 1.2E+00                                      | 2.4E-02                                   | 2.4E+00                                      | 8.9E+00                                                                   | 1.1E+00                                                             | —                                                                         | —                                                                   | 2.6E-02                                   | 2.6E+00                                      | 7.3E-02                                   | 7.3E+00                                      | 1.5E+01                                                                   | 1.9E+00                                                             | —                                                                         | —                                                                   |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | 1.4E-04                                   | 1.4E-02                                      | 2.0E-01                                   | 2.0E+01                                      | 1.5E+02                                                                   | 2.0E+01                                                             | —                                                                         | —                                                                   | 3.2E-04                                   | 3.2E-02                                      | 5.8E-01                                   | 5.8E+01                                      | 2.6E+02                                                                   | 3.3E+01                                                             | —                                                                         | —                                                                   |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | 5.1E-04                                   | 5.1E-02                                      | —                                         | —                                            | 1.1E+03                                                                   | 1.5E+02                                                             | —                                                                         | —                                                                   | 1.1E-03                                   | 1.1E-01                                      | —                                         | —                                            | 1.9E+03                                                                   | 2.5E+02                                                             | —                                                                         | —                                                                   |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | 5.1E-04                                   | 5.1E-02                                      | 7.3E-03                                   | 7.3E-01                                      | 3.6E+02                                                                   | 4.7E+01                                                             | —                                                                         | —                                                                   | 1.1E-03                                   | 1.1E-01                                      | 2.2E-02                                   | 2.2E+00                                      | 6.1E+02                                                                   | 7.9E+01                                                             | —                                                                         | —                                                                   |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | 7.0E-04                                   | 7.0E-02                                      | 7.3E-03                                   | 7.3E-01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | 1.6E-03                                   | 1.6E-01                                      | 2.2E-02                                   | 2.2E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | 5.1E-04                                   | 5.1E-02                                      | —                                         | —                                            | 9.9E+02                                                                   | 1.3E+02                                                             | —                                                                         | —                                                                   | 1.1E-03                                   | 1.1E-01                                      | —                                         | —                                            | 1.7E+03                                                                   | 2.2E+02                                                             | —                                                                         | —                                                                   |
| Hexachlorocyclopentadiene                         | 77-47-4    | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                         | —                                                                   | 5.4E+00                                                                   | 7.0E-01                                                             | —                                         | —                                            | 4.4E-01                                   | 4.4E+01                                      | —                                                                         | —                                                                   | 7.6E+00                                                                   | 9.8E-01                                                             |
| Hexachloroethane                                  | 67-72-1    | 2.3E-02                                   | 2.3E+00                                      | 1.7E-02                                   | 1.7E+00                                      | —                                                                         | —                                                                   | 7.3E+03                                                                   | 9.5E+02                                                             | 5.1E-02                                   | 5.1E+00                                      | 5.1E-02                                   | 5.1E+00                                      | —                                                                         | —                                                                   | 1.0E+04                                                                   | 1.3E+03                                                             |
| Hexachlorophene                                   | 70-30-4    | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 2.2E-02                                   | 2.2E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Hexachloropropylene                               | 1888-71-7  | 2.3E-02                                   | 2.3E+00                                      | 1.7E-02                                   | 1.7E+00                                      | —                                                                         | —                                                                   | 2.1E+03                                                                   | 2.8E+02                                                             | 5.1E-02                                   | 5.1E+00                                      | 5.1E-02                                   | 5.1E+00                                      | —                                                                         | —                                                                   | 3.0E+03                                                                   | 3.9E+02                                                             |
| Hexanal, 2-ethyl-                                 | 123-05-7   | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 1.1E+01                                   | 1.1E+03                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Hexane, n-                                        | 110-54-3   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 3.8E+01                                                                   | 4.9E+00                                                             | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 5.3E+01                                                                   | 6.9E+00                                                             |
| Hexanediamine, 1,6-                               | 124-09-4   | —                                         | —                                            | 1.2E-01                                   | 1.2E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 3.7E-01                                   | 3.7E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Hexanedinitrile                                   | 111-69-3   | —                                         | —                                            | 3.4E-02                                   | 3.4E+00                                      | —                                                                         | —                                                                   | 1.6E+05                                                                   | 2.1E+04                                                             | —                                         | —                                            | 1.0E-01                                   | 1.0E+01                                      | —                                                                         | —                                                                   | 2.2E+05                                                                   | 2.9E+04                                                             |
| Hexanediol, 1,6-                                  | 629-11-8   | —                                         | —                                            | 1.2E+02                                   | 1.2E+04                                      | —                                                                         | —                                                                   | 1.0E+06                                                                   | 1.0E+06                                                             | —                                         | —                                            | 3.7E+02                                   | 3.7E+04                                      | —                                                                         | —                                                                   | 1.0E+06                                                                   | 1.0E+06                                                             |
| Hexanoic acid                                     | 142-62-1   | —                                         | —                                            | 1.6E+00                                   | 1.6E+02                                      | —                                                                         | —                                                                   | 2.1E+04                                                                   | 2.7E+03                                                             | —                                         | —                                            | 4.7E+00                                   | 4.7E+02                                      | —                                                                         | —                                                                   | 3.0E+04                                                                   | 3.8E+03                                                             |
| Hexanone, 2-                                      | 591-78-6   | —                                         | —                                            | 1.2E+00                                   | 1.2E+02                                      | —                                                                         | —                                                                   | 1.2E+04                                                                   | 1.5E+03                                                             | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                         | —                                                                   | 1.6E+04                                                                   | 2.1E+03                                                             |
| Hexazinone                                        | 51235-04-2 | —                                         | —                                            | 8.1E-01                                   | 8.1E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 2.4E+00                                   | 2.4E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Hexene, 1-                                        | 592-41-6   | —                                         | —                                            | 8.1E+00                                   | 8.1E+02                                      | —                                                                         | —                                                                   | 3.4E+01                                                                   | 4.3E+00                                                             | —                                         | —                                            | 2.4E+01                                   | 2.4E+03                                      | —                                                                         | —                                                                   | 4.7E+01                                                                   | 6.1E+00                                                             |
| Hexene, cis-2-                                    | 7688-21-3  | —                                         | —                                            | 8.1E+00                                   | 8.1E+02                                      | —                                                                         | —                                                                   | 4.8E+01                                                                   | 6.2E+00                                                             | —                                         | —                                            | 2.4E+01                                   | 2.4E+03                                      | —                                                                         | —                                                                   | 6.7E+01                                                                   | 8.7E+00                                                             |
| Hexylene glycol (2-methyl-2,4-pentanediol)        | 107-41-5   | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 2.2E+01                                   | 2.2E+03                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Hydrazine                                         | 302-01-2   | 3.0E-04                                   | 3.0E-02                                      | —                                         | —                                            | 5.1E+01                                                                   | 6.7E+00                                                             | 3.2E+02                                                                   | 4.2E+01                                                             | 6.8E-04                                   | 6.8E-02                                      | —                                         | —                                            | 8.6E+01                                                                   | 1.1E+01                                                             | 4.5E+02                                                                   | 5.9E+01                                                             |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)    | 1191-25-9  | —                                         | —                                            | 1.6E+00                                   | 1.6E+02                                      | —                                                                         | —                                                                   | 2.9E+04                                                                   | 4.2E+03                                                             | —                                         | —                                            | 4.7E+00                                   | 4.7E+02                                      | —                                                                         | —                                                                   | 4.0E+04                                                                   | 5.9E+03                                                             |
| Hydrogen chloride (hydrochloric acid)*            | 7647-01-0  | —                                         | —                                            | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Hydroquinone                                      | 123-31-9   | 1.5E-02                                   | 1.5E+00                                      | 9.8E-01                                   | 9.8E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | 3.4E-02                                   | 3.4E+00                                      | 2.9E+00                                   | 2.9E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Indene                                            | 95-13-6    | —                                         | —                                            | 4.9E-01                                   | 4.9E+01                                      | —                                                                         | —                                                                   | 2.7E+02                                                                   | 3.5E+01                                                             | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 3.8E+02                                                                   | 5.0E+01                                                             |
| Indeno-1,2,3-cd-pyrene                            | 193-39-5   | 9.1E-03                                   | 9.1E-01                                      | —                                         | —                                            | 1.4E+04                                                                   | 1.8E+03                                                             | —                                                                         | —                                                                   | 2.0E-02                                   | 2.0E+00                                      | —                                         | —                                            | 2.3E+04                                                                   | 3.0E+03                                                             | —                                                                         | —                                                                   |
| Iron*                                             | 7439-89-6  | —                                         | —                                            | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Isoamyl alcohol                                   | 123-51-3   | —                                         | —                                            | 1.2E-01                                   | 1.2E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 3.7E-01                                   | 3.7E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Isobutyl alcohol                                  | 78-83-1    | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 2.2E+01                                   | 2.2E+03                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Isobutylene (2-methyl-1-propene)                  | 115-11-7   | —                                         | —                                            | 9.0E-02                                   | 9.0E+00                                      | —                                                                         | —                                                                   | 6.1E+04                                                                   | 7.9E+03                                                             | —                                         | —                                            | 2.7E-01                                   | 2.7E+01                                      | —                                                                         | —                                                                   | 8.5E+04                                                                   | 1.1E+04                                                             |
| Isobutyric acid (2-methylpropanoic acid)          | 79-31-2    | —                                         | —                                            | 1.2E+01                                   | 1.2E+03                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 3.7E+01                                   | 3.7E+03                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Isodecanol                                        | 25339-17-7 | —                                         | —                                            | 3.9E-02                                   | 3.9E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 1.2E-01                                   | 1.2E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Isodrin                                           | 465-73-6   | 5.4E-06                                   | 5.4E-04                                      | 7.3E-05                                   | 7.3E-03                                      | 3.4E-02                                                                   | 4.4E-03                                                             | —                                                                         | —                                                                   | 1.2E-05                                   | 1.2E-03                                      | 2.2E-04                                   | 2.2E-02                                      | 5.7E-02                                                                   | 7.4E-03                                                             | —                                                                         | —                                                                   |
| Isopentane                                        | 78-78-4    | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 2.5E+03                                                                   | 3.2E+02                                                             | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 3.4E+03                                                                   | 4.4E+02                                                             |
| Isophorone                                        | 78-59-1    | 9.6E-01                                   | 9.6E+01                                      | 4.9E+00                                   | 4.9E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | 2.2E+00                                   | 2.2E+02                                      | 1.5E+01                                   | 1.5E+03                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Isopropyl acetate                                 | 108-21-4   | —                                         | —                                            | 1.7E+00                                   | 1.7E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 5.1E+00                                   | 5.1E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Isopropyl alcohol                                 | 67-63-0    | —                                         | —                                            | 4.9E+01                                   | 4.9E+03                                      | —                                                                         | —                                                                   | 4.2E+05                                                                   | 5.5E+04                                                             | —                                         | —                                            | 1.5E+02                                   | 1.5E+04                                      | —                                                                         | —                                                                   | 5.9E+05                                                                   | 7.6E+04                                                             |
| Isosafrole                                        | 120-58-1   | 4.1E-03                                   | 4.1E-01                                      | —                                         | —                                            | 4.3E+02                                                                   | 5.5E+01                                                             | —                                                                         | —                                                                   | 9.3E-03                                   | 9.3E-01                                      | —                                         | —                                            | 7.2E+02                                                                   | 9.3E+01                                                             | —                                                                         | —                                                                   |
| Kelthane (dicofol)                                | 115-32-2   | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 4.4E-01                                   | 4.4E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Kepone (chlordecone)                              | 143-50-0   | 9.1E-05                                   | 9.1E-03                                      | 7.3E-03                                   | 7.3E-01                                      | 2.4E+02                                                                   | 3.0E+01                                                             | —                                                                         | —                                                                   | 2.0E-04                                   | 2.0E-02                                      | 2.2E-02                                   | 2.2E+00                                      | 4.0E+02                                                                   | 5.1E+01                                                             | —                                                                         | —                                                                   |
| Lead (inorganic)                                  | 7439-92-1  | —                                         | —                                            | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Leptophos                                         | 21609-90-5 | —                                         | —                                            | 1.2E-04                                   | 1.2E-02                                      | —                                                                         | —                                                                   | 6.4E+01                                                                   | 8.2E+00                                                             | —                                         | —                                            | 3.7E-04                                   | 3.7E-02                                      | —                                                                         | —                                                                   | 8.9E+01                                                                   | 1.2E+01                                                             |
| Limonene, d-*                                     | 5989-27-5  | —                                         | —                                            | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Lithium                                           | 7439-93-2  | —                                         | —                                            | 1.7E-01                                   | 1.7E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 5.1E-01                                   | 5.1E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Magnesium*                                        | 7439-95-4  | —                                         | —                                            | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | —                                         | —                                            | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Malathion                                         | 121-75-5   | —                                         | —                                            | 4.9E-01                                   | 4.9E+01                                      | —                                                                         | —                                                                   | 9.2E+03                                                                   | 1.2E+03                                                             | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 1.3E+04                                                                   | 1.7E+03                                                             |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

Last Revised: February 6, 2025

| Chemical of Concern                                | CAS        | Residential                              |                                              |                                          |                                              |                                                    |                                                   |                                                    |                                                   | Commercial/Industrial                    |                                              |                                          |                                              |                                                    |                                                   |                                                    |                                                   |
|----------------------------------------------------|------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------------|---------------------------------------------------|----------------------------------------------------|---------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------------|---------------------------------------------------|----------------------------------------------------|---------------------------------------------------|
|                                                    |            | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                       | Noncarcinogenic                                   | Carcinogenic                                       | Noncarcinogenic                                   | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                       | Noncarcinogenic                                   | Carcinogenic                                       | Noncarcinogenic                                   |
|                                                    |            | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Int-V</sub> 0.5 acre source area (mg/L) | AirGW <sub>Int-V</sub> 30 acre source area (mg/L) | AirGW <sub>Int-V</sub> 0.5 acre source area (mg/L) | AirGW <sub>Int-V</sub> 30 acre source area (mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Int</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Int-V</sub> 0.5 acre source area (mg/L) | AirGW <sub>Int-V</sub> 30 acre source area (mg/L) | AirGW <sub>Int-V</sub> 0.5 acre source area (mg/L) | AirGW <sub>Int-V</sub> 30 acre source area (mg/L) |
| Maleic anhydride                                   | 108-31-6   | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Maleic hydrazide                                   | 123-33-1   | —                                        | —                                            | 1.2E+01                                  | 1.2E+03                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 3.7E+01                                  | 3.7E+03                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Malononitrile                                      | 109-77-3   | —                                        | —                                            | 2.4E-03                                  | 2.4E-01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Mancozeb                                           | 8018-01-7  | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Manganese                                          | 7439-96-5  | —                                        | —                                            | 1.1E+00                                  | 1.1E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 1.0E+01                                  | 1.0E+03                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | —                                        | —                                            | 1.2E-02                                  | 1.2E+00                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 3.7E-02                                  | 3.7E+00                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | —                                        | —                                            | 2.4E-02                                  | 2.4E+00                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Mercury (pH = 4.9)                                 | 7439-97-6  | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                  | —                                                 | 7.3E+00                                            | 9.4E-01                                           | —                                        | —                                            | 2.2E-02                                  | 2.2E+00                                      | —                                                  | —                                                 | 1.0E+01                                            | 1.3E+00                                           |
| Mercury (pH=6.8)                                   | 7439-97-6  | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                  | —                                                 | 7.3E+00                                            | 9.4E-01                                           | —                                        | —                                            | 2.2E-02                                  | 2.2E+00                                      | —                                                  | —                                                 | 1.0E+01                                            | 1.3E+00                                           |
| Merphos                                            | 150-50-5   | —                                        | —                                            | 7.3E-04                                  | 7.3E-02                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 2.2E-03                                  | 2.2E-01                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methacrylic acid (2-methyl-2-propenoic acid)       | 79-41-4    | —                                        | —                                            | 2.4E-01                                  | 2.4E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methacrylonitrile                                  | 126-98-7   | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                  | —                                                 | 1.1E+04                                            | 1.4E+03                                           | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                  | —                                                 | 1.6E+04                                            | 2.0E+03                                           |
| Methanol                                           | 67-56-1    | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                  | —                                                 | 1.0E+06                                            | 1.0E+06                                           | —                                        | —                                            | 1.5E+02                                  | 1.5E+04                                      | —                                                  | —                                                 | 1.0E+06                                            | 1.0E+06                                           |
| Methapyrilene                                      | 91-80-5    | 1.9E-04                                  | 1.9E-02                                      | —                                        | —                                            | —                                                  | —                                                 | —                                                  | —                                                 | 4.3E-04                                  | 4.3E-02                                      | —                                        | —                                            | —                                                  | —                                                 | —                                                  | —                                                 |
| Methomyl                                           | 16752-77-5 | —                                        | —                                            | 6.1E-01                                  | 6.1E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 1.8E+00                                  | 1.8E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methoxychlor                                       | 72-43-5    | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methoxyethanol, 2-                                 | 109-86-4   | —                                        | —                                            | 6.6E-01                                  | 6.6E+01                                      | —                                                  | —                                                 | 8.1E+01                                            | 1.1E+01                                           | —                                        | —                                            | 2.0E+00                                  | 2.0E+02                                      | —                                                  | —                                                 | 1.1E+02                                            | 1.5E+01                                           |
| Methyl acetate (acetic acid, methyl ester)         | 79-20-9    | —                                        | —                                            | 2.4E+01                                  | 2.4E+03                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 7.3E+01                                  | 7.3E+03                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methyl acrylate                                    | 96-33-3    | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                  | —                                                 | 2.7E+03                                            | 3.4E+02                                           | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                  | —                                                 | 3.7E+03                                            | 4.8E+02                                           |
| Methyl amyl ketone (2-heptanone)                   | 110-43-0   | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                  | —                                                 | 1.0E+06                                            | 1.4E+05                                           | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                  | —                                                 | 1.0E+06                                            | 2.0E+05                                           |
| Methyl chrysene, 1-                                | 3351-28-8  | 1.3E-01                                  | 1.3E+01                                      | —                                        | —                                            | 8.0E+05                                            | 1.0E+05                                           | —                                                  | —                                                 | 2.8E-01                                  | 2.8E+01                                      | —                                        | —                                            | 1.0E+06                                            | 1.7E+05                                           | —                                                  | —                                                 |
| Methyl chrysene, 2-                                | 3351-32-4  | 1.3E-01                                  | 1.3E+01                                      | —                                        | —                                            | 8.0E+05                                            | 1.0E+05                                           | —                                                  | —                                                 | 2.8E-01                                  | 2.8E+01                                      | —                                        | —                                            | 1.0E+06                                            | 1.7E+05                                           | —                                                  | —                                                 |
| Methyl chrysene, 6-                                | 1705-85-7  | 1.3E-02                                  | 1.3E+00                                      | —                                        | —                                            | 8.0E+04                                            | 1.0E+04                                           | —                                                  | —                                                 | 2.8E-02                                  | 2.8E+00                                      | —                                        | —                                            | 1.3E+05                                            | 1.7E+04                                           | —                                                  | —                                                 |
| Methyl cyclohexane                                 | 108-87-2   | —                                        | —                                            | 1.2E+02                                  | 1.2E+04                                      | —                                                  | —                                                 | 1.4E+03                                            | 1.8E+02                                           | —                                        | —                                            | 3.7E+02                                  | 3.7E+04                                      | —                                                  | —                                                 | 2.0E+03                                            | 2.6E+02                                           |
| Methyl ethyl ketone (2-butanone)                   | 78-93-3    | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                  | —                                                 | 1.0E+06                                            | 6.2E+05                                           | —                                        | —                                            | 4.4E+01                                  | 4.4E+03                                      | —                                                  | —                                                 | 1.0E+06                                            | 8.7E+05                                           |
| Methyl iodide (iodomethane)                        | 74-88-4    | —                                        | —                                            | 3.4E-02                                  | 3.4E+00                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 1.0E-01                                  | 1.0E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methyl isobutyl ketone (4-methyl-2-pentanone)      | 108-10-1   | —                                        | —                                            | 2.0E+00                                  | 2.0E+02                                      | —                                                  | —                                                 | 6.7E+05                                            | 8.7E+04                                           | —                                        | —                                            | 5.8E+00                                  | 5.8E+02                                      | —                                                  | —                                                 | 9.4E+05                                            | 1.2E+05                                           |
| Methyl mercury                                     | 22967-92-6 | —                                        | —                                            | 2.4E-03                                  | 2.4E-01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methyl methacrylate                                | 80-62-6    | —                                        | —                                            | 3.4E+01                                  | 3.4E+03                                      | —                                                  | —                                                 | 7.9E+04                                            | 1.0E+04                                           | —                                        | —                                            | 1.0E+02                                  | 1.0E+04                                      | —                                                  | —                                                 | 1.1E+05                                            | 1.4E+04                                           |
| Methyl methanesulfonate                            | 66-27-3    | 9.2E-03                                  | 9.2E-01                                      | —                                        | —                                            | 1.7E+04                                            | 2.2E+03                                           | —                                                  | —                                                 | 2.1E-02                                  | 2.1E+00                                      | —                                        | —                                            | 2.8E+04                                            | 3.7E+03                                           | —                                                  | —                                                 |
| Methyl parathion                                   | 298-00-0   | —                                        | —                                            | 6.1E-03                                  | 6.1E-01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 1.8E-02                                  | 1.8E+00                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methyl-1-butene, 2-                                | 563-46-2   | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                  | —                                                 | 7.8E+03                                            | 1.0E+03                                           | —                                        | —                                            | 4.4E+00                                  | 4.4E+02                                      | —                                                  | —                                                 | 1.1E+04                                            | 1.4E+03                                           |
| Methyl-1-propanal, 2- (isobutyraldehyde)           | 78-84-2    | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methyl-2-butene, 2-                                | 513-35-9   | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                  | —                                                 | 1.5E+04                                            | 1.9E+03                                           | —                                        | —                                            | 4.4E+00                                  | 4.4E+02                                      | —                                                  | —                                                 | 2.1E+04                                            | 2.7E+03                                           |
| Methyl-2-pentenal, 2-                              | 623-36-9   | 4.8E-04                                  | 4.8E-02                                      | —                                        | —                                            | —                                                  | —                                                 | —                                                  | —                                                 | 1.1E-03                                  | 1.1E-01                                      | —                                        | —                                            | —                                                  | —                                                 | —                                                  | —                                                 |
| Methylcholanthrene, 3-                             | 56-49-5    | 4.1E-05                                  | 4.1E-03                                      | —                                        | —                                            | 4.1E+02                                            | 5.4E+01                                           | —                                                  | —                                                 | 9.3E-05                                  | 9.3E-03                                      | —                                        | —                                            | 7.0E+02                                            | 9.0E+01                                           | —                                                  | —                                                 |
| Methylene bromide (dibromomethane)                 | 74-95-3    | 1.2E-01                                  | 1.2E+01                                      | 1.5E+00                                  | 1.5E+02                                      | —                                                  | —                                                 | 2.4E+02                                            | 3.1E+01                                           | 2.7E-01                                  | 2.7E+01                                      | 4.4E+00                                  | 4.4E+02                                      | —                                                  | —                                                 | 3.3E+02                                            | 4.3E+01                                           |
| Methylene chloride (dichloromethane)               | 75-09-2    | 9.3E+00                                  | 9.3E+02                                      | 5.1E-01                                  | 5.1E+01                                      | 2.1E+04                                            | 2.8E+03                                           | 3.3E+04                                            | 4.3E+03                                           | 2.1E+01                                  | 2.1E+03                                      | 1.5E+00                                  | 1.5E+02                                      | 3.6E+04                                            | 4.6E+03                                           | 4.7E+04                                            | 6.0E+03                                           |
| Methylene-bis (2-chloroaniline) 4,4'-              | 101-14-4   | 9.1E-03                                  | 9.1E-01                                      | 4.9E-02                                  | 4.9E+00                                      | 2.0E+04                                            | 2.6E+03                                           | —                                                  | —                                                 | 2.0E-02                                  | 2.0E+00                                      | 1.5E-01                                  | 1.5E+01                                      | 3.3E+04                                            | 4.3E+03                                           | —                                                  | —                                                 |
| Methylmercury hydroxide                            | 1184-57-2  | —                                        | —                                            | 2.4E-03                                  | 2.4E-01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methylnaphthalene, 1-                              | 90-12-0    | 3.1E-02                                  | 3.1E+00                                      | 1.7E+00                                  | 1.7E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 | 7.0E-02                                  | 7.0E+00                                      | 5.1E+00                                  | 5.1E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methylnaphthalene, 2-                              | 91-57-6    | —                                        | —                                            | 9.8E-02                                  | 9.8E+00                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 2.9E-01                                  | 2.9E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methylpyrrolidone, N-                              | 872-50-4   | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Methylstyrene, alpha-                              | 98-83-9    | —                                        | —                                            | 2.0E-01                                  | 2.0E+01                                      | —                                                  | —                                                 | 6.6E+02                                            | 8.5E+01                                           | —                                        | —                                            | 6.1E-01                                  | 6.1E+01                                      | —                                                  | —                                                 | 9.2E+02                                            | 1.2E+02                                           |
| Methyltetrahydrofuran, 2-                          | 96-47-9    | 1.2E-01                                  | 1.2E+01                                      | 4.9E+00                                  | 4.9E+02                                      | 1.8E+03                                            | 2.3E+02                                           | —                                                  | —                                                 | 2.7E-01                                  | 2.7E+01                                      | 1.5E+01                                  | 1.5E+03                                      | 3.1E+03                                            | 3.9E+02                                           | —                                                  | —                                                 |
| Methyltetrahydropyran, 2-                          | 10141-72-7 | 1.2E-01                                  | 1.2E+01                                      | 4.9E+00                                  | 4.9E+02                                      | 2.1E+03                                            | 2.7E+02                                           | —                                                  | —                                                 | 2.7E-01                                  | 2.7E+01                                      | 1.5E+01                                  | 1.5E+03                                      | 3.6E+03                                            | 4.6E+02                                           | —                                                  | —                                                 |
| Metolachlor                                        | 51218-45-2 | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 1.1E+01                                  | 1.1E+03                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Metribuzin                                         | 21087-64-9 | —                                        | —                                            | 6.1E-01                                  | 6.1E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 1.8E+00                                  | 1.8E+02                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Mirex                                              | 2385-85-5  | —                                        | —                                            | 4.9E-03                                  | 4.9E-01                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 1.5E-02                                  | 1.5E+00                                      | —                                                  | —                                                 | —                                                  | —                                                 |
| Molinate                                           | 2212-67-1  | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                  | —                                                 | —                                                  | —                                                 | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                  | —                                                 | —                                                  | —                                                 |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

Last Revised: February 6, 2025

| Chemical of Concern            | CAS        | Residential                              |                                              |                                          |                                              |                                                                                      |                                                                               |                                                                                      |                                                                               | Commercial/Industrial                    |                                              |                                          |                                              |                                                                                      |                                                                               |                                                                                      |                                                                               |
|--------------------------------|------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                |            | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                         | Noncarcinogenic                                                               | Carcinogenic                                                                         | Noncarcinogenic                                                               | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                         | Noncarcinogenic                                                               | Carcinogenic                                                                         | Noncarcinogenic                                                               |
|                                |            | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| Molybdenum                     | 7439-98-7  | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Monocrotaphos                  | 2157-98-4  | —                                        | —                                            | 1.5E-02                                  | 1.5E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 4.4E-02                                  | 4.4E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Morpholine                     | 110-91-8   | —                                        | —                                            | 1.2E+04                                  | 1.2E+06                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E+04                                  | 3.7E+06                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Morpholine, N-butyl-           | 1005-67-0  | —                                        | —                                            | 5.6E-02                                  | 5.6E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.7E-01                                  | 1.7E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| MTBE (methyl tert-butyl ether) | 1634-04-4  | 5.1E-01                                  | 5.1E+01                                      | 2.4E-01                                  | 2.4E+01                                      | 4.0E+03                                                                              | 5.2E+02                                                                       | 1.4E+05                                                                              | 1.7E+04                                                                       | 1.1E+00                                  | 1.1E+02                                      | 7.3E-01                                  | 7.3E+01                                      | 6.8E+03                                                                              | 8.8E+02                                                                       | 1.9E+05                                                                              | 2.4E+04                                                                       |
| Naled                          | 300-76-5   | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Naphthalene                    | 91-20-3    | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                                    | —                                                                             | 3.2E+02                                                                              | 4.1E+01                                                                       | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | 4.4E+02                                                                              | 5.7E+01                                                                       |
| Naphthoquinone, 1,4-           | 130-15-4   | —                                        | —                                            | 1.7E-01                                  | 1.7E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 5.1E-01                                  | 5.1E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Naphthylamine, 1-              | 134-32-7   | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Naphthylamine, 2-              | 91-59-8    | 5.1E-04                                  | 5.1E-02                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 1.1E-03                                  | 1.1E-01                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Napropamide                    | 15299-99-7 | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Neopentyl glycol               | 126-30-7   | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E+01                                  | 2.2E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nickel and compounds           | 7440-02-0  | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrate-N                      | 14797-55-8 | —                                        | —                                            | 3.9E+01                                  | 3.9E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.2E+02                                  | 1.2E+04                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrite-N                      | 14797-65-0 | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitroaniline, 2-               | 88-74-4    | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                                                    | —                                                                             | 4.0E+03                                                                              | 5.2E+02                                                                       | —                                        | —                                            | 2.2E-02                                  | 2.2E+00                                      | —                                                                                    | —                                                                             | 5.6E+03                                                                              | 7.2E+02                                                                       |
| Nitroaniline, 3-               | 99-09-2    | 2.4E-02                                  | 2.4E+00                                      | 7.3E-03                                  | 7.3E-01                                      | —                                                                                    | —                                                                             | 4.7E+03                                                                              | 6.1E+02                                                                       | 5.4E-02                                  | 5.4E+00                                      | 2.2E-02                                  | 2.2E+00                                      | —                                                                                    | —                                                                             | 6.6E+03                                                                              | 8.6E+02                                                                       |
| Nitroaniline, 4-               | 100-01-6   | 4.6E-02                                  | 4.6E+00                                      | 9.8E-02                                  | 9.8E+00                                      | —                                                                                    | —                                                                             | 1.4E+05                                                                              | 1.9E+04                                                                       | 1.0E-01                                  | 1.0E+01                                      | 2.9E-01                                  | 2.9E+01                                      | —                                                                                    | —                                                                             | 2.0E+05                                                                              | 2.6E+04                                                                       |
| Nitrobenzene                   | 98-95-3    | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | 7.2E+02                                                                              | 9.3E+01                                                                       | 1.2E+03                                                                              | 1.6E+02                                                                       | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | 1.2E+03                                                                              | 1.6E+02                                                                       | 1.7E+03                                                                              | 2.2E+02                                                                       |
| Nitroglycerin                  | 55-63-0    | 5.4E-02                                  | 5.4E+00                                      | 2.4E-03                                  | 2.4E-01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 1.2E-01                                  | 1.2E+01                                      | 7.3E-03                                  | 7.3E-01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrophenol, 2-                | 88-75-5    | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrophenol, 3-                | 554-84-7   | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrophenol, 4-                | 100-02-7   | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitropropane, 2-               | 79-46-9    | —                                        | —                                            | 3.4E-03                                  | 3.4E-01                                      | 8.1E+00                                                                              | 1.0E+00                                                                       | 4.0E+03                                                                              | 5.2E+02                                                                       | —                                        | —                                            | 1.0E-02                                  | 1.0E+00                                      | 1.4E+01                                                                              | 1.8E+00                                                                       | 5.6E+03                                                                              | 7.3E+02                                                                       |
| Nitroquinoline-N-oxide, 4-     | 56-57-5    | 9.7E-05                                  | 9.7E-03                                      | —                                        | —                                            | 1.1E+04                                                                              | 1.1E+04                                                                       | —                                                                                    | —                                                                             | 2.2E-04                                  | 2.2E-02                                      | —                                        | —                                            | 1.9E+04                                                                              | 1.8E+04                                                                       | —                                                                                    | —                                                                             |
| Nitrosodiethanolamine          | 1116-54-7  | 3.3E-04                                  | 3.3E-02                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 7.3E-04                                  | 7.3E-02                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrosodiethylamine, n-        | 55-18-5    | 6.1E-06                                  | 6.1E-04                                      | —                                        | —                                            | 7.4E+00                                                                              | 9.5E-01                                                                       | —                                                                                    | —                                                                             | 1.4E-05                                  | 1.4E-03                                      | —                                        | —                                            | 1.2E+01                                                                              | 1.6E+00                                                                       | —                                                                                    | —                                                                             |
| Nitrosodimethylamine, n-       | 62-75-9    | 1.8E-05                                  | 1.8E-03                                      | 2.0E-04                                  | 2.0E-02                                      | 2.0E+01                                                                              | 2.6E+00                                                                       | 4.8E+02                                                                              | 6.3E+01                                                                       | 4.0E-05                                  | 4.0E-03                                      | 5.8E-04                                  | 5.8E-02                                      | 3.4E+01                                                                              | 4.4E+00                                                                       | 6.8E+02                                                                              | 8.8E+01                                                                       |
| Nitrosodi-n-butylamine, n-     | 924-16-3   | 1.7E-04                                  | 1.7E-02                                      | —                                        | —                                            | 4.7E+00                                                                              | 6.1E-01                                                                       | —                                                                                    | —                                                                             | 3.8E-04                                  | 3.8E-02                                      | —                                        | —                                            | 7.9E+00                                                                              | 1.0E+00                                                                       | —                                                                                    | —                                                                             |
| Nitrosodi-n-propylamine, n-    | 621-64-7   | 1.3E-04                                  | 1.3E-02                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 2.9E-04                                  | 2.9E-02                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrosodiphenylamine           | 86-30-6    | 1.9E-01                                  | 1.9E+01                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 4.2E-01                                  | 4.2E+01                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitroso-methyl-ethyl-amine, n- | 10595-95-6 | 4.1E-05                                  | 4.1E-03                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 9.3E-05                                  | 9.3E-03                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrosomorpholine, N-          | 59-89-2    | 1.4E-04                                  | 1.4E-02                                      | —                                        | —                                            | 2.7E+02                                                                              | 3.6E+01                                                                       | —                                                                                    | —                                                                             | 3.1E-04                                  | 3.1E-02                                      | —                                        | —                                            | 4.6E+02                                                                              | 6.0E+01                                                                       | —                                                                                    | —                                                                             |
| Nitroso-n-ethylurea, n-        | 759-73-9   | 6.5E-06                                  | 6.5E-04                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 1.5E-05                                  | 1.5E-03                                      | —                                        | —                                            | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrosopiperidine, N-          | 100-75-4   | 9.7E-05                                  | 9.7E-03                                      | —                                        | —                                            | 1.6E+02                                                                              | 2.1E+01                                                                       | —                                                                                    | —                                                                             | 2.2E-04                                  | 2.2E-02                                      | —                                        | —                                            | 2.8E+02                                                                              | 3.6E+01                                                                       | —                                                                                    | —                                                                             |
| Nitrosopyrrolidine, n-         | 930-55-2   | 4.3E-04                                  | 4.3E-02                                      | —                                        | —                                            | 9.6E+02                                                                              | 1.2E+02                                                                       | —                                                                                    | —                                                                             | 9.7E-04                                  | 9.7E-02                                      | —                                        | —                                            | 1.6E+03                                                                              | 2.1E+02                                                                       | —                                                                                    | —                                                                             |
| Nitrotoluene, m-               | 99-08-1    | —                                        | —                                            | 2.4E-01                                  | 2.4E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrotoluene, o-               | 88-72-2    | 4.1E-03                                  | 4.1E-01                                      | 2.2E-02                                  | 2.2E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 9.3E-03                                  | 9.3E-01                                      | 6.6E-02                                  | 6.6E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nitrotoluene, p-               | 99-99-0    | 5.7E-02                                  | 5.7E+00                                      | 9.8E-02                                  | 9.8E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 1.3E-01                                  | 1.3E+01                                      | 2.9E-01                                  | 2.9E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nonachlor, cis-                | 5103-73-1  | 2.6E-03                                  | 2.6E-01                                      | 1.2E-02                                  | 1.2E+00                                      | 7.7E+02                                                                              | 9.9E+01                                                                       | 2.3E+03                                                                              | 3.0E+02                                                                       | 5.8E-03                                  | 5.8E-01                                      | 3.7E-02                                  | 3.7E+00                                      | 1.3E+03                                                                              | 1.7E+02                                                                       | 3.2E+03                                                                              | 4.2E+02                                                                       |
| Nonachlor, trans-              | 39765-80-5 | 2.6E-03                                  | 2.6E-01                                      | 1.2E-02                                  | 1.2E+00                                      | 7.7E+02                                                                              | 9.9E+01                                                                       | 2.3E+03                                                                              | 3.0E+02                                                                       | 5.8E-03                                  | 5.8E-01                                      | 3.7E-02                                  | 3.7E+00                                      | 1.3E+03                                                                              | 1.7E+02                                                                       | 3.2E+03                                                                              | 4.2E+02                                                                       |
| Nonanal                        | 124-19-6   | —                                        | —                                            | 4.9E+00                                  | 4.9E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nonene, 1-n                    | 124-11-8   | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nonylphenol, 4-n-              | 104-40-5   | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Nonylphenol ethoxylate         | 9016-45-9  | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Octamethylpyrophosphoramide    | 152-16-9   | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Octanone                       | 106-68-3   | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | 1.0E+06                                                                              | 6.2E+05                                                                       | —                                        | —                                            | 4.4E+00                                  | 4.4E+02                                      | —                                                                                    | —                                                                             | 1.0E+06                                                                              | 8.7E+05                                                                       |
| Oxamyl                         | 23135-22-0 | —                                        | —                                            | 6.1E-01                                  | 6.1E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.8E+00                                  | 1.8E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Oxychlordan                    | 27304-13-8 | 2.6E-03                                  | 2.6E-01                                      | 1.2E-02                                  | 1.2E+00                                      | 7.7E+02                                                                              | 9.9E+01                                                                       | 2.3E+03                                                                              | 3.0E+02                                                                       | 5.8E-03                                  | 5.8E-01                                      | 3.7E-02                                  | 3.7E+00                                      | 1.3E+03                                                                              | 1.7E+02                                                                       | 3.2E+03                                                                              | 4.2E+02                                                                       |
| Paraquat                       | 1910-42-5  | —                                        | —                                            | 1.1E-01                                  | 1.1E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.3E-01                                  | 3.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

Last Revised: February 6, 2025

| Chemical of Concern                                                              | CAS        | Residential                               |                                              |                                           |                                              |                                                                           |                                                                     |                                                                           |                                                                     | Commercial/Industrial                     |                                              |                                           |                                              |                                                                           |                                                                     |                                                                           |                                                                     |
|----------------------------------------------------------------------------------|------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|
|                                                                                  |            | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                              |                                                                     | Noncarcinogenic                                                           |                                                                     | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                              |                                                                     | Noncarcinogenic                                                           |                                                                     |
|                                                                                  |            | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | AirGW <sub>Intg-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| Parathion (ethyl parathion)                                                      | 56-38-2    | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 4.4E-01                                   | 4.4E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Pebulate                                                                         | 1114-71-2  | —                                         | —                                            | 1.2E+00                                   | 1.2E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 3.7E+00                                   | 3.7E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Pendimethalin                                                                    | 40487-42-1 | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Pentachlorobenzene                                                               | 608-93-5   | —                                         | —                                            | 2.0E-02                                   | 2.0E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 5.8E-02                                   | 5.8E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Pentachloroethane                                                                | 76-01-7    | 1.0E-02                                   | 1.0E+00                                      | 7.3E-01                                   | 7.3E+01                                      | 3.0E+02                                                                   | 3.8E+01                                                             | —                                                                         | —                                                                   | 2.3E-02                                   | 2.3E+00                                      | 2.2E+00                                   | 2.2E+02                                      | 5.0E+02                                                                   | 6.4E+01                                                             | —                                                                         | —                                                                   |
| Pentachloronitrobenzene                                                          | 82-68-8    | 3.5E-03                                   | 3.5E-01                                      | 7.3E-02                                   | 7.3E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | 7.9E-03                                   | 7.9E-01                                      | 2.2E-01                                   | 2.2E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Pentachlorophenol                                                                | 87-86-5    | 2.3E-03                                   | 2.3E-01                                      | 1.2E-01                                   | 1.2E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | 5.1E-03                                   | 5.1E-01                                      | 3.7E-01                                   | 3.7E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Pentadiene, 1,3-cis-                                                             | 1574-41-0  | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 4.3E+04                                                                   | 5.6E+03                                                             | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 6.0E+04                                                                   | 7.8E+03                                                             |
| Pentadiene, 1,3-trans-                                                           | 2004-70-8  | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 7.6E+04                                                                   | 9.8E+03                                                             | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 1.1E+05                                                                   | 1.4E+04                                                             |
| Pentaerythritol tetranitrate (PETN)                                              | 78-11-5    | —                                         | —                                            | 4.9E-02                                   | 4.9E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 1.5E-01                                   | 1.5E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Pentane                                                                          | 109-66-0   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 3.4E+02                                                                   | 4.4E+01                                                             | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 4.8E+02                                                                   | 6.2E+01                                                             |
| Pentane, 2-methyl-                                                               | 107-83-5   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 1.7E+03                                                                   | 2.3E+02                                                             | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 2.4E+03                                                                   | 3.2E+02                                                             |
| Pentane, 3-methyl-                                                               | 96-14-0    | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 2.2E+03                                                                   | 2.9E+02                                                             | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 3.1E+03                                                                   | 4.0E+02                                                             |
| Pentanediol, 1,5-                                                                | 111-29-5   | —                                         | —                                            | 1.2E+02                                   | 1.2E+04                                      | —                                                                         | —                                                                   | 1.0E+06                                                                   | 1.0E+06                                                             | —                                         | —                                            | 3.7E+02                                   | 3.7E+04                                      | —                                                                         | —                                                                   | 1.0E+06                                                                   | 1.0E+06                                                             |
| Pentanol, 1-                                                                     | 71-41-0    | —                                         | —                                            | 8.1E-01                                   | 8.1E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 2.4E+00                                   | 2.4E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Pentanol, 4-methyl-2-                                                            | 108-11-2   | —                                         | —                                            | 6.4E-01                                   | 6.4E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 1.9E+00                                   | 1.9E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Pentanone, 2-                                                                    | 107-87-9   | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Pentene, 2-                                                                      | 109-68-2   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 1.4E+04                                                                   | 1.8E+03                                                             | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 2.0E+04                                                                   | 2.5E+03                                                             |
| Pentyne, 1-                                                                      | 627-19-0   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | 7.2E+04                                                                   | 9.3E+03                                                             | —                                         | —                                            | 4.4E+00                                   | 4.4E+02                                      | —                                                                         | —                                                                   | 1.0E+05                                                                   | 1.3E+04                                                             |
| Perchlorate                                                                      | 14797-73-0 | —                                         | —                                            | 1.7E-02                                   | 1.7E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 5.1E-02                                   | 5.1E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | —                                         | —                                            | 5.6E-04                                   | 5.6E-02                                      | —                                                                         | —                                                                   | 1.8E+03                                                                   | 2.4E+02                                                             | —                                         | —                                            | 1.7E-03                                   | 1.7E-01                                      | —                                                                         | —                                                                   | 2.6E+03                                                                   | 3.4E+02                                                             |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDa]               | 2058-94-8  | —                                         | —                                            | 2.9E-04                                   | 2.9E-02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 8.8E-04                                   | 8.8E-02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                    | 2706-90-3  | —                                         | —                                            | 1.2E-02                                   | 1.2E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 3.7E-02                                   | 3.7E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                    | 307-24-4   | —                                         | —                                            | 1.2E-02                                   | 1.2E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 3.7E-02                                   | 3.7E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Perfluorododecanoic acid (Dodecanoic acid, tricosfluoro-) [PFDoA]                | 307-55-1   | —                                         | —                                            | 2.9E-04                                   | 2.9E-02                                      | —                                                                         | —                                                                   | 5.5E+02                                                                   | 7.2E+01                                                             | —                                         | —                                            | 8.8E-04                                   | 8.8E-02                                      | —                                                                         | —                                                                   | 7.8E+02                                                                   | 1.0E+02                                                             |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                  | 335-67-1   | —                                         | —                                            | 2.9E-04                                   | 2.9E-02                                      | —                                                                         | —                                                                   | 9.0E+01                                                                   | 1.2E+01                                                             | —                                         | —                                            | 8.8E-04                                   | 8.8E-02                                      | —                                                                         | —                                                                   | 1.3E+02                                                                   | 1.6E+01                                                             |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                   | 335-76-2   | —                                         | —                                            | 3.7E-04                                   | 3.7E-02                                      | —                                                                         | —                                                                   | 1.3E+03                                                                   | 1.6E+02                                                             | —                                         | —                                            | 1.1E-03                                   | 1.1E-01                                      | —                                                                         | —                                                                   | 1.8E+03                                                                   | 2.3E+02                                                             |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafluoro-) [PFDS]   | 335-77-3   | —                                         | —                                            | 2.9E-04                                   | 2.9E-02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 8.8E-04                                   | 8.8E-02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS]    | 355-46-4   | —                                         | —                                            | 9.3E-05                                   | 9.3E-03                                      | —                                                                         | —                                                                   | 2.9E+02                                                                   | 5.7E+01                                                             | —                                         | —                                            | 2.8E-04                                   | 2.8E-02                                      | —                                                                         | —                                                                   | 4.0E+02                                                                   | 7.9E+01                                                             |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                       | 375-22-4   | —                                         | —                                            | 2.4E-02                                   | 2.4E+00                                      | —                                                                         | —                                                                   | 3.0E+05                                                                   | 2.5E+05                                                             | —                                         | —                                            | 7.3E-02                                   | 7.3E+00                                      | —                                                                         | —                                                                   | 4.2E+05                                                                   | 3.5E+05                                                             |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]        | 375-73-5   | —                                         | —                                            | 3.4E-02                                   | 3.4E+00                                      | —                                                                         | —                                                                   | 5.4E+05                                                                   | 4.7E+05                                                             | —                                         | —                                            | 1.0E-01                                   | 1.0E+01                                      | —                                                                         | —                                                                   | 7.6E+05                                                                   | 6.5E+05                                                             |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]                 | 375-85-9   | —                                         | —                                            | 5.6E-04                                   | 5.6E-02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 1.7E-03                                   | 1.7E-01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]                  | 375-95-1   | —                                         | —                                            | 2.9E-04                                   | 2.9E-02                                      | —                                                                         | —                                                                   | 6.5E+02                                                                   | 8.4E+01                                                             | —                                         | —                                            | 8.8E-04                                   | 8.8E-02                                      | —                                                                         | —                                                                   | 9.1E+02                                                                   | 1.2E+02                                                             |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosfluoro-) [PFTeDA]       | 376-06-7   | —                                         | —                                            | 2.9E-04                                   | 2.9E-02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 8.8E-04                                   | 8.8E-02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosfluoro-) [PFTrDA]           | 72629-94-8 | —                                         | —                                            | 2.9E-04                                   | 2.9E-02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 8.8E-04                                   | 8.8E-02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA]      | 754-91-6   | —                                         | —                                            | 2.9E-04                                   | 2.9E-02                                      | —                                                                         | —                                                                   | 5.3E-05                                                                   | 6.8E-06                                                             | —                                         | —                                            | 8.8E-04                                   | 8.8E-02                                      | —                                                                         | —                                                                   | 7.4E-05                                                                   | 9.6E-06                                                             |
| Perylene                                                                         | 198-55-0   | —                                         | —                                            | 4.9E-01                                   | 4.9E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Phenacetin                                                                       | 62-44-2    | 4.1E-01                                   | 4.1E+01                                      | —                                         | —                                            | 1.0E+06                                                                   | 1.5E+05                                                             | —                                                                         | —                                                                   | 9.3E-01                                   | 9.3E+01                                      | —                                         | —                                            | 1.0E+06                                                                   | 2.5E+05                                                             | —                                                                         | —                                                                   |
| Phenanthrene                                                                     | 85-01-8    | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Phenanthridine                                                                   | 229-87-8   | —                                         | —                                            | 7.3E-02                                   | 7.3E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 2.2E-01                                   | 2.2E+01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Phenol                                                                           | 108-95-2   | —                                         | —                                            | 7.3E+00                                   | 7.3E+02                                      | —                                                                         | —                                                                   | 1.6E+05                                                                   | 2.1E+04                                                             | —                                         | —                                            | 2.2E+01                                   | 2.2E+03                                      | —                                                                         | —                                                                   | 2.2E+05                                                                   | 2.9E+04                                                             |
| Phenol, 4-tert-butyl-                                                            | 98-54-4    | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 8.8E+00                                   | 8.8E+02                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Phenothiazine                                                                    | 92-84-2    | —                                         | —                                            | 2.7E-02                                   | 2.7E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 8.0E-02                                   | 8.0E+00                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |
| Phenyl mercuric acetate                                                          | 62-38-4    | —                                         | —                                            | 2.0E-03                                   | 2.0E-01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   | —                                         | —                                            | 5.8E-03                                   | 5.8E-01                                      | —                                                                         | —                                                                   | —                                                                         | —                                                                   |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

Last Revised: February 6, 2025

| Chemical of Concern                           | CAS        | Residential                              |                                              |                                          |                                              |                                                                          |                                                                    |                                                                          |                                                                    | Commercial/Industrial                    |                                              |                                          |                                              |                                                                          |                                                                    |                                                                          |                                                                    |
|-----------------------------------------------|------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
|                                               |            | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                             |                                                                    | Noncarcinogenic                                                          |                                                                    | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                             |                                                                    | Noncarcinogenic                                                          |                                                                    |
|                                               |            | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | AirGW <sub>Inh-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | AirGW <sub>Inh-V</sub> <sup>1</sup><br>0.5 acre<br>source area<br>(mg/L) | AirGW <sub>Inh-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | AirGW <sub>Inh-V</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | AirGW <sub>Inh-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | AirGW <sub>Inh-V</sub> <sup>1</sup><br>0.5<br>acre source<br>area (mg/L) | AirGW <sub>Inh-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| Phenylene diamine, m-                         | 108-45-2   | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 4.4E-01                                  | 4.4E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Phenylene diamine, p-                         | 106-50-3   | —                                        | —                                            | 4.6E+00                                  | 4.6E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.4E+01                                  | 1.4E+03                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Phorate                                       | 298-02-2   | —                                        | —                                            | 4.9E-03                                  | 4.9E-01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.5E-02                                  | 1.5E+00                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Phosalone                                     | 2310-17-0  | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Phosdrin (mevinphos)                          | 7786-34-7  | —                                        | —                                            | 6.1E-04                                  | 6.1E-02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.8E-03                                  | 1.8E-01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Phosmet                                       | 732-11-6   | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Phosphine                                     | 7803-51-2  | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                                        | —                                                                  | 2.9E-03                                                                  | 3.7E-04                                                            | —                                        | —                                            | 2.2E-02                                  | 2.2E+00                                      | —                                                                        | —                                                                  | 4.0E-03                                                                  | 5.2E-04                                                            |
| Phosphorotrithioic acid, S,S,S-tributyl ester | 78-48-8    | 1.1E-02                                  | 1.1E+00                                      | 1.2E-02                                  | 1.2E+00                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | 2.4E-02                                  | 2.4E+00                                      | 3.7E-02                                  | 3.7E+00                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Phosphorus, total*                            | 7723-14-0  | —                                        | —                                            | —                                        | —                                            | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | —                                        | —                                            | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Phosphorus, white                             | 7723-14-0  | —                                        | —                                            | 4.9E-04                                  | 4.9E-02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.5E-03                                  | 1.5E-01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Phthalic anhydride                            | 85-44-9    | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                                        | —                                                                  | 1.0E+06                                                                  | 4.0E+05                                                            | —                                        | —                                            | 1.5E+02                                  | 1.5E+04                                      | —                                                                        | —                                                                  | 1.0E+06                                                                  | 5.6E+05                                                            |
| Picloram                                      | 1918-02-1  | —                                        | —                                            | 1.7E+00                                  | 1.7E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 5.1E+00                                  | 5.1E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Picoline, 2- (2-methylpyridine)               | 109-06-8   | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 6.6E-01                                  | 6.6E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Polybrominated biphenyls (PBBs)               | 67774-32-7 | 1.0E-04                                  | 1.0E-02                                      | 1.7E-04                                  | 1.7E-02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | 2.3E-04                                  | 2.3E-02                                      | 5.1E-04                                  | 5.1E-02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Polychlorinated biphenyls (PCBs)              | 1336-36-3  | 4.6E-04                                  | 4.6E-02                                      | 4.9E-04                                  | 4.9E-02                                      | 2.9E+00                                                                  | 3.8E-01                                                            | —                                                                        | —                                                                  | 1.0E-03                                  | 1.0E-01                                      | 1.5E-03                                  | 1.5E-01                                      | 4.9E+00                                                                  | 6.4E-01                                                            | —                                                                        | —                                                                  |
| Potassium*                                    | 7440-09-7  | —                                        | —                                            | —                                        | —                                            | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | —                                        | —                                            | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Primene                                       | 68955-53-3 | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 4.4E-01                                  | 4.4E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Prometon (pramitol)                           | 1610-18-0  | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.1E+00                                  | 1.1E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Prometryn                                     | 7287-19-6  | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Pronamide                                     | 23950-58-5 | —                                        | —                                            | 1.8E+00                                  | 1.8E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 5.5E+00                                  | 5.5E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propanal (propionaldehyde)                    | 123-38-6   | —                                        | —                                            | 2.0E-01                                  | 2.0E+01                                      | —                                                                        | —                                                                  | 1.6E+03                                                                  | 2.1E+02                                                            | —                                        | —                                            | 5.8E-01                                  | 5.8E+01                                      | —                                                                        | —                                                                  | 2.3E+03                                                                  | 3.0E+02                                                            |
| Propane, 1-bromo-                             | 106-94-5   | —                                        | —                                            | 8.8E-01                                  | 8.8E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 2.6E+00                                  | 2.6E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propanil                                      | 709-98-8   | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propanoic acid (propionic acid)               | 79-09-4    | —                                        | —                                            | 1.2E+01                                  | 1.2E+03                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 3.7E+01                                  | 3.7E+03                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propanol, 1-                                  | 71-23-8    | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.5E+02                                  | 1.5E+04                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propargite                                    | 2312-35-8  | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propargyl alcohol                             | 107-19-7   | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propazine                                     | 139-40-2   | 2.1E-02                                  | 2.1E+00                                      | 4.9E-01                                  | 4.9E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | 4.6E-02                                  | 4.6E+00                                      | 1.5E+00                                  | 1.5E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propham                                       | 122-42-9   | —                                        | —                                            | 4.9E-01                                  | 4.9E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propionitrile (propane nitrile)               | 107-12-0   | —                                        | —                                            | 9.8E-03                                  | 9.8E-01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 2.9E-02                                  | 2.9E+00                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propyl acetate, n-                            | 109-60-4   | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 6.6E+00                                  | 6.6E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Propylbenzene, n-                             | 103-65-1   | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                                        | —                                                                  | 6.0E+03                                                                  | 7.8E+02                                                            | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                                        | —                                                                  | 8.5E+03                                                                  | 1.1E+03                                                            |
| Propylene glycol                              | 57-55-6    | —                                        | —                                            | 4.9E+02                                  | 4.9E+04                                      | —                                                                        | —                                                                  | 5.0E+04                                                                  | 6.4E+03                                                            | —                                        | —                                            | 1.5E+03                                  | 1.5E+05                                      | —                                                                        | —                                                                  | 7.0E+04                                                                  | 9.0E+03                                                            |
| Propylene glycol monomethyl ether             | 107-98-2   | —                                        | —                                            | 1.7E+01                                  | 1.7E+03                                      | —                                                                        | —                                                                  | 1.0E+06                                                                  | 1.0E+06                                                            | —                                        | —                                            | 5.1E+01                                  | 5.1E+03                                      | —                                                                        | —                                                                  | 1.0E+06                                                                  | 1.0E+06                                                            |
| Propylene oxide                               | 75-56-9    | 3.8E-03                                  | 3.8E-01                                      | —                                        | —                                            | 1.6E+03                                                                  | 2.0E+02                                                            | 7.5E+03                                                                  | 9.7E+02                                                            | 8.5E-03                                  | 8.5E-01                                      | —                                        | —                                            | 2.7E+03                                                                  | 3.4E+02                                                            | 1.1E+04                                                                  | 1.4E+03                                                            |
| Propylene tetramer                            | 6842-15-5  | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                        | —                                                                  | 4.4E+01                                                                  | 5.7E+00                                                            | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                        | —                                                                  | 6.2E+01                                                                  | 8.0E+00                                                            |
| Prothiofos (Tokuthion)                        | 34643-46-4 | —                                        | —                                            | 2.4E-03                                  | 2.4E-01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Pyrene                                        | 129-00-0   | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Pyridine                                      | 110-86-1   | —                                        | —                                            | 2.4E-02                                  | 2.4E+00                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Quinoline                                     | 91-22-5    | 3.0E-04                                  | 3.0E-02                                      | —                                        | —                                            | —                                                                        | —                                                                  | —                                                                        | —                                                                  | 6.8E-04                                  | 6.8E-02                                      | —                                        | —                                            | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Ronnel                                        | 299-84-3   | —                                        | —                                            | 1.2E+00                                  | 1.2E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 3.7E+00                                  | 3.7E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Safrole                                       | 94-59-7    | 4.1E-03                                  | 4.1E-01                                      | —                                        | —                                            | 1.9E+02                                                                  | 2.4E+01                                                            | —                                                                        | —                                                                  | 9.3E-03                                  | 9.3E-01                                      | —                                        | —                                            | 3.2E+02                                                                  | 4.1E+01                                                            | —                                                                        | —                                                                  |
| Selenium                                      | 7782-49-2  | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Selenourea                                    | 630-10-4   | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Silver                                        | 7440-22-4  | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Simazine                                      | 122-34-9   | 7.6E-03                                  | 7.6E-01                                      | 1.2E-01                                  | 1.2E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | 1.7E-02                                  | 1.7E+00                                      | 3.7E-01                                  | 3.7E+01                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Sodium*                                       | 7440-23-5  | —                                        | —                                            | —                                        | —                                            | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | —                                        | —                                            | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Sodium hypochlorite                           | 7681-52-9  | —                                        | —                                            | 5.1E+00                                  | 5.1E+02                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |
| Sodium polyacrylate                           | 9003-04-7  | —                                        | —                                            | 1.2E+01                                  | 1.2E+03                                      | —                                                                        | —                                                                  | 1.5E+04                                                                  | 2.0E+03                                                            | —                                        | —                                            | 3.7E+01                                  | 3.7E+03                                      | —                                                                        | —                                                                  | 2.1E+04                                                                  | 2.7E+03                                                            |
| Strontium                                     | 7440-24-6  | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  | —                                        | —                                            | 4.4E+01                                  | 4.4E+03                                      | —                                                                        | —                                                                  | —                                                                        | —                                                                  |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

Last Revised: February 6, 2025

| Chemical of Concern                       | CAS         | Residential                               |                                              |                                           |                                              |                                                                                 |                                                                                |                                                                                 |                                                                                | Commercial/Industrial                     |                                              |                                           |                                              |                                                                                 |                                                                                |                                                                                 |                                                                                |
|-------------------------------------------|-------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                           |             | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                                    |                                                                                | Noncarcinogenic                                                                 |                                                                                | Carcinogenic                              |                                              | Noncarcinogenic                           |                                              | Carcinogenic                                                                    |                                                                                | Noncarcinogenic                                                                 |                                                                                |
|                                           |             | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>0.5</sup><br>acre source area<br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>30</sup><br>acre source area<br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>0.5</sup><br>acre source area<br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>30</sup><br>acre source area<br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Intg</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>0.5</sup><br>acre source area<br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>30</sup><br>acre source area<br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>0.5</sup><br>acre source area<br>(mg/L) | Air <sub>GW<sub>Intg-V</sub></sub> <sup>30</sup><br>acre source area<br>(mg/L) |
| Strychnine                                | 57-24-9     | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E-02                                   | 2.2E+00                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Styrene                                   | 100-42-5    | —                                         | —                                            | 4.9E+00                                   | 4.9E+02                                      | —                                                                               | —                                                                              | 1.5E+04                                                                         | 2.0E+03                                                                        | —                                         | —                                            | 1.5E+01                                   | 1.5E+03                                      | —                                                                               | —                                                                              | 2.1E+04                                                                         | 2.7E+03                                                                        |
| Sulfate*                                  | 14808-79-8  | —                                         | —                                            | —                                         | —                                            | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | —                                         | —                                            | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Sulfide*                                  | 18496-25-8  | —                                         | —                                            | —                                         | —                                            | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | —                                         | —                                            | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Sulfolane                                 | 126-33-0    | —                                         | —                                            | 3.2E-01                                   | 3.2E+01                                      | —                                                                               | —                                                                              | 1.3E+05                                                                         | 1.7E+04                                                                        | —                                         | —                                            | 9.5E-01                                   | 9.5E+01                                      | —                                                                               | —                                                                              | 1.8E+05                                                                         | 2.3E+04                                                                        |
| Sulfur*                                   | 7704-34-9   | —                                         | —                                            | —                                         | —                                            | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | —                                         | —                                            | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Sulprofos (Bolstar)                       | 35400-43-2  | —                                         | —                                            | 7.3E-02                                   | 7.3E+00                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E-01                                   | 2.2E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tebuconazole                              | 107534-96-3 | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tebuthiuron                               | 34014-18-1  | —                                         | —                                            | 1.7E+00                                   | 1.7E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 5.1E+00                                   | 5.1E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Terbufos                                  | 13071-79-9  | —                                         | —                                            | 6.1E-04                                   | 6.1E-02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 1.8E-03                                   | 1.8E-01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tert-amyl ethyl ether (TAE)               | 919-94-8    | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tert-amyl-methyl ether (TAME)             | 994-05-8    | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0     | —                                         | —                                            | 1.7E+01                                   | 1.7E+03                                      | —                                                                               | —                                                                              | 1.0E+06                                                                         | 1.0E+06                                                                        | —                                         | —                                            | 5.1E+01                                   | 5.1E+03                                      | —                                                                               | —                                                                              | 1.0E+06                                                                         | 1.0E+06                                                                        |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2    | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E-02                                   | 2.2E+00                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2    | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E-02                                   | 2.2E+00                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3     | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E-02                                   | 2.2E+00                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6    | 3.5E-02                                   | 3.5E+00                                      | 7.3E-01                                   | 7.3E+01                                      | 1.1E+02                                                                         | 1.4E+01                                                                        | —                                                                               | —                                                                              | 7.9E-02                                   | 7.9E+00                                      | 2.2E+00                                   | 2.2E+02                                      | 1.9E+02                                                                         | 2.4E+01                                                                        | —                                                                               | —                                                                              |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5     | 4.6E-03                                   | 4.6E-01                                      | 4.9E-01                                   | 4.9E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | 1.0E-02                                   | 1.0E+00                                      | 1.5E+00                                   | 1.5E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetrachloroethylene [PCE]                 | 127-18-4    | 4.3E-01                                   | 4.3E+01                                      | 5.1E-01                                   | 5.1E+01                                      | 5.0E+02                                                                         | 6.4E+01                                                                        | 3.0E+03                                                                         | 3.9E+02                                                                        | 9.7E-01                                   | 9.7E+01                                      | 1.5E+00                                   | 1.5E+02                                      | 8.4E+02                                                                         | 1.1E+02                                                                        | 4.2E+03                                                                         | 5.4E+02                                                                        |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3   | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2     | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5    | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetrachlorvinphos (Stirophos)             | 22248-79-9  | —                                         | —                                            | 1.0E+00                                   | 1.0E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 3.1E+00                                   | 3.1E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetradifon                                | 116-29-0    | —                                         | —                                            | 4.9E-01                                   | 4.9E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 1.5E+00                                   | 1.5E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5   | —                                         | —                                            | 1.2E-02                                   | 1.2E+00                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 3.7E-02                                   | 3.7E+00                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetraethyl lead                           | 78-00-2     | —                                         | —                                            | 2.4E-06                                   | 2.4E-04                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 7.3E-06                                   | 7.3E-04                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3    | —                                         | —                                            | 2.7E-04                                   | 2.7E-02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 8.0E-04                                   | 8.0E-02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetraethylene glycol                      | 112-60-7    | —                                         | —                                            | 8.1E+00                                   | 8.1E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.4E+01                                   | 2.4E+03                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tetrahydrofuran                           | 109-99-9    | 1.2E-01                                   | 1.2E+01                                      | 2.2E+01                                   | 2.2E+03                                      | 2.2E+03                                                                         | 2.9E+02                                                                        | 3.6E+05                                                                         | 4.7E+04                                                                        | 2.7E-01                                   | 2.7E+01                                      | 6.6E+01                                   | 6.6E+03                                      | 3.7E+03                                                                         | 4.8E+02                                                                        | 5.1E+05                                                                         | 6.6E+04                                                                        |
| Tetrahydropyran                           | 142-68-7    | 1.2E-01                                   | 1.2E+01                                      | 4.9E+00                                   | 4.9E+02                                      | 2.6E+03                                                                         | 3.4E+02                                                                        | —                                                                               | —                                                                              | 2.7E-01                                   | 2.7E+01                                      | 1.5E+01                                   | 1.5E+03                                      | 4.4E+03                                                                         | 5.7E+02                                                                        | —                                                                               | —                                                                              |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2    | —                                         | —                                            | 6.1E-01                                   | 6.1E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 1.8E+00                                   | 1.8E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Thallium                                  | 7440-28-0   | —                                         | —                                            | 1.6E-03                                   | 1.6E-01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 4.9E-03                                   | 4.9E-01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Thiofanox                                 | 39196-18-4  | —                                         | —                                            | 7.3E-03                                   | 7.3E-01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E-02                                   | 2.2E+00                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Thionazin                                 | 297-97-2    | —                                         | —                                            | 1.7E-03                                   | 1.7E-01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 5.1E-03                                   | 5.1E-01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Thiophanate-methyl                        | 23564-05-8  | —                                         | —                                            | 2.0E+00                                   | 2.0E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 5.8E+00                                   | 5.8E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Thiram                                    | 137-26-8    | —                                         | —                                            | 1.2E-01                                   | 1.2E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 3.7E-01                                   | 3.7E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Tin                                       | 7440-31-5   | —                                         | —                                            | 1.5E+01                                   | 1.5E+03                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 4.4E+01                                   | 4.4E+03                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Titanium                                  | 7440-32-6   | —                                         | —                                            | 1.2E+02                                   | 1.2E+04                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 3.7E+02                                   | 3.7E+04                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Toluene                                   | 108-88-3    | —                                         | —                                            | 2.0E+00                                   | 2.0E+02                                      | —                                                                               | —                                                                              | 6.4E+04                                                                         | 8.2E+03                                                                        | —                                         | —                                            | 5.8E+00                                   | 5.8E+02                                      | —                                                                               | —                                                                              | 8.9E+04                                                                         | 1.2E+04                                                                        |
| Toluene diisocyanate, 2,4/2,6-            | 26471-62-5  | —                                         | —                                            | —                                         | —                                            | —                                                                               | —                                                                              | 1.8E+03                                                                         | 2.4E+02                                                                        | —                                         | —                                            | —                                         | —                                            | —                                                                               | —                                                                              | 2.6E+03                                                                         | 3.3E+02                                                                        |
| Toluenediamine, 2,4-                      | 95-80-7     | 2.9E-04                                   | 2.9E-02                                      | —                                         | —                                            | —                                                                               | —                                                                              | —                                                                               | —                                                                              | 6.4E-04                                   | 6.4E-02                                      | —                                         | —                                            | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Toluenediamine, 2,6-                      | 823-40-5    | —                                         | —                                            | 7.3E-01                                   | 7.3E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 2.2E+00                                   | 2.2E+02                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Toluidine, o-                             | 95-53-4     | 5.7E-02                                   | 5.7E+00                                      | —                                         | —                                            | 2.6E+03                                                                         | 3.4E+02                                                                        | —                                                                               | —                                                                              | 1.3E-01                                   | 1.3E+01                                      | —                                         | —                                            | 4.4E+03                                                                         | 5.7E+02                                                                        | —                                                                               | —                                                                              |
| Toluidine, p-                             | 106-49-0    | 3.0E-02                                   | 3.0E+00                                      | —                                         | —                                            | —                                                                               | —                                                                              | —                                                                               | —                                                                              | 6.8E-02                                   | 6.8E+00                                      | —                                         | —                                            | —                                                                               | —                                                                              | —                                                                               | —                                                                              |
| Toxaphene                                 | 8001-35-2   | 8.3E-04                                   | 8.3E-02                                      | 7.6E-03                                   | 7.6E-01                                      | 1.8E+03                                                                         | 2.3E+02                                                                        | —                                                                               | —                                                                              | 1.9E-03                                   | 1.9E-01                                      | 2.3E-02                                   | 2.3E+00                                      | 3.0E+03                                                                         | 3.9E+02                                                                        | —                                                                               | —                                                                              |
| TPH, TX1005, C6-C12                       | TPH-1005-1  | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                               | —                                                                              | 1.8E+03                                                                         | 2.3E+02                                                                        | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                               | —                                                                              | 2.5E+03                                                                         | 3.2E+02                                                                        |
| TPH, TX1005, >C12-C28                     | TPH-1005-2  | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                               | —                                                                              | 7.5E+03                                                                         | 9.7E+02                                                                        | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                               | —                                                                              | 1.0E+04                                                                         | 1.4E+03                                                                        |
| TPH, TX1005, >C12-C35                     | TPH-1005-3  | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                               | —                                                                              | 7.5E+03                                                                         | 9.7E+02                                                                        | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                               | —                                                                              | 1.0E+04                                                                         | 1.4E+03                                                                        |
| TPH, TX1005, >C28-C35                     | TPH-1005-4  | —                                         | —                                            | 9.8E-01                                   | 9.8E+01                                      | —                                                                               | —                                                                              | 7.5E+03                                                                         | 9.7E+02                                                                        | —                                         | —                                            | 2.9E+00                                   | 2.9E+02                                      | —                                                                               | —                                                                              | 1.0E+04                                                                         | 1.4E+03                                                                        |
| TP Silvex, 2,4,5-                         | 93-72-1     | —                                         | —                                            | 2.0E-01                                   | 2.0E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              | —                                         | —                                            | 5.8E-01                                   | 5.8E+01                                      | —                                                                               | —                                                                              | —                                                                               | —                                                                              |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

Last Revised: February 6, 2025

| Chemical of Concern                               | CAS        | Residential                              |                                              |                                          |                                              |                                                                                      |                                                                               |                                                                                      |                                                                               | Commercial/Industrial                    |                                              |                                          |                                              |                                                                                      |                                                                               |                                                                                      |                                                                               |
|---------------------------------------------------|------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                   |            | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                         |                                                                               | Noncarcinogenic                                                                      |                                                                               | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                         |                                                                               | Noncarcinogenic                                                                      |                                                                               |
|                                                   |            | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| Triademenol                                       | 55219-65-3 | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Triallate                                         | 2303-17-5  | —                                        | —                                            | 3.2E-01                                  | 3.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 9.5E-01                                  | 9.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Triaminotrinrobenzene (TATB)                      | 3058-38-6  | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Tributyltin oxide                                 | 56-35-9    | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E-02                                  | 2.2E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trichloro-1,2,2-trifluoroethane, 1,1,2-           | 76-13-1    | —                                        | —                                            | 7.3E+02                                  | 7.3E+04                                      | —                                                                                    | —                                                                             | 1.5E+03                                                                              | 2.0E+02                                                                       | —                                        | —                                            | 2.2E+03                                  | 2.2E+05                                      | —                                                                                    | —                                                                             | 2.1E+03                                                                              | 2.8E+02                                                                       |
| Trichlorobenzene, 1,2,3-                          | 87-61-6    | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | 1.3E+02                                                                              | 1.7E+01                                                                       | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                    | —                                                                             | 1.9E+02                                                                              | 2.4E+01                                                                       |
| Trichlorobenzene, 1,2,4-                          | 120-82-1   | 3.1E-02                                  | 3.1E+00                                      | 2.4E-01                                  | 2.4E+01                                      | —                                                                                    | —                                                                             | 1.6E+02                                                                              | 2.0E+01                                                                       | 7.0E-02                                  | 7.0E+00                                      | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | 2.2E+02                                                                              | 2.8E+01                                                                       |
| Trichlorobenzene, 1,3,5-                          | 108-70-3   | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | 1.0E+02                                                                              | 1.3E+01                                                                       | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                    | —                                                                             | 1.4E+02                                                                              | 1.8E+01                                                                       |
| Trichloroethane, 1,1,1-                           | 71-55-6    | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                                                    | —                                                                             | 4.1E+04                                                                              | 5.2E+03                                                                       | —                                        | —                                            | 1.5E+02                                  | 1.5E+04                                      | —                                                                                    | —                                                                             | 5.7E+04                                                                              | 7.3E+03                                                                       |
| Trichloroethane, 1,1,2-                           | 79-00-5    | 1.6E-02                                  | 1.6E+00                                      | 9.8E-02                                  | 9.8E+00                                      | 8.0E+01                                                                              | 1.0E+01                                                                       | —                                                                                    | —                                                                             | 3.6E-02                                  | 3.6E+00                                      | 2.9E-01                                  | 2.9E+01                                      | 1.3E+02                                                                              | 1.7E+01                                                                       | —                                                                                    | —                                                                             |
| Trichloroethylene [TCE]                           | 79-01-6    | 2.0E-02                                  | 2.0E+00                                      | 1.2E-02                                  | 1.2E+00                                      | 6.7E+01                                                                              | 8.7E+00                                                                       | 2.4E+01                                                                              | 3.1E+00                                                                       | 4.4E-02                                  | 4.4E+00                                      | 3.7E-02                                  | 3.7E+00                                      | 1.1E+02                                                                              | 1.5E+01                                                                       | 3.3E+01                                                                              | 4.3E+00                                                                       |
| Trichlorofluoromethane                            | 75-69-4    | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E+01                                  | 2.2E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trichloronate                                     | 327-98-0   | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trichlorophenol, 2,3,4-                           | 15950-66-0 | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trichlorophenol, 2,3,5-                           | 933-78-8   | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trichlorophenol, 2,3,6-                           | 933-75-5   | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trichlorophenol, 2,4,5-                           | 95-95-4    | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trichlorophenol, 2,4,6-                           | 88-06-2    | 8.3E-02                                  | 8.3E+00                                      | 2.4E-02                                  | 2.4E+00                                      | 4.9E+04                                                                              | 6.4E+03                                                                       | —                                                                                    | —                                                                             | 1.9E-01                                  | 1.9E+01                                      | 7.3E-02                                  | 7.3E+00                                      | 8.3E+04                                                                              | 1.1E+04                                                                       | —                                                                                    | —                                                                             |
| Trichlorophenol, 3,4,5-                           | 609-19-8   | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trichlorophenoxyacetic acid, 2,4,5-               | 93-76-5    | —                                        | —                                            | 2.4E-01                                  | 2.4E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trichloropropane, 1,1,2-                          | 598-77-6   | —                                        | —                                            | 1.2E-01                                  | 1.2E+01                                      | —                                                                                    | —                                                                             | 2.7E+00                                                                              | 3.5E-01                                                                       | —                                        | —                                            | 3.7E-01                                  | 3.7E+01                                      | —                                                                                    | —                                                                             | 3.8E+00                                                                              | 4.9E-01                                                                       |
| Trichloropropane, 1,2,3-                          | 96-18-4    | 3.0E-05                                  | 3.0E-03                                      | 9.8E-02                                  | 9.8E+00                                      | —                                                                                    | —                                                                             | 3.2E+01                                                                              | 4.2E+00                                                                       | 6.8E-05                                  | 6.8E-03                                      | 2.9E-01                                  | 2.9E+01                                      | —                                                                                    | —                                                                             | 4.5E+01                                                                              | 5.8E+00                                                                       |
| Triethanolamine                                   | 102-71-6   | —                                        | —                                            | 4.9E+00                                  | 4.9E+02                                      | —                                                                                    | —                                                                             | 1.0E+06                                                                              | 1.0E+06                                                                       | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                                    | —                                                                             | 1.0E+06                                                                              | 1.0E+06                                                                       |
| Triethylamine                                     | 121-44-8   | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | 6.3E+02                                                                              | 8.1E+01                                                                       | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | 8.8E+02                                                                              | 1.1E+02                                                                       |
| Triethylene glycol                                | 112-27-6   | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E+02                                  | 1.5E+04                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Triethylphosphorothioate, O, O, O-                | 126-68-1   | —                                        | —                                            | 2.0E-04                                  | 2.0E-02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 6.1E-04                                  | 6.1E-02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trifluralin                                       | 1582-09-8  | 1.2E-01                                  | 1.2E+01                                      | 1.8E-01                                  | 1.8E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 2.7E-01                                  | 2.7E+01                                      | 5.5E-01                                  | 5.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trimethylamine                                    | 75-50-3    | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | 1.7E+03                                                                              | 2.2E+02                                                                       | —                                        | —                                            | —                                        | —                                            | —                                                                                    | —                                                                             | 2.3E+03                                                                              | 3.0E+02                                                                       |
| Trimethylbenzene, 1,2,3-                          | 526-73-8   | —                                        | —                                            | 8.3E-01                                  | 8.3E+01                                      | —                                                                                    | —                                                                             | 5.6E+03                                                                              | 7.3E+02                                                                       | —                                        | —                                            | 2.5E+00                                  | 2.5E+02                                      | —                                                                                    | —                                                                             | 7.9E+03                                                                              | 1.0E+03                                                                       |
| Trimethylbenzene, 1,2,4-                          | 95-63-6    | —                                        | —                                            | 8.3E-01                                  | 8.3E+01                                      | —                                                                                    | —                                                                             | 4.9E+03                                                                              | 6.3E+02                                                                       | —                                        | —                                            | 2.5E+00                                  | 2.5E+02                                      | —                                                                                    | —                                                                             | 6.8E+03                                                                              | 8.8E+02                                                                       |
| Trimethylbenzene, 1,3,5-                          | 108-67-8   | —                                        | —                                            | 8.3E-01                                  | 8.3E+01                                      | —                                                                                    | —                                                                             | 3.8E+03                                                                              | 4.9E+02                                                                       | —                                        | —                                            | 2.5E+00                                  | 2.5E+02                                      | —                                                                                    | —                                                                             | 5.3E+03                                                                              | 6.8E+02                                                                       |
| Trinitrobenzene, 1,3,5-                           | 99-35-4    | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trinitrophenylmethylnitramine (tetryl; nitramine) | 479-45-8   | —                                        | —                                            | 4.9E-02                                  | 4.9E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.5E-01                                  | 1.5E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Trinitrotoluene, 2,4,6-                           | 118-96-7   | 3.0E-02                                  | 3.0E+00                                      | 1.2E-02                                  | 1.2E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | 6.8E-02                                  | 6.8E+00                                      | 3.7E-02                                  | 3.7E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Tungsten (as sodium tungstate dihydride)          | 7440-33-7  | —                                        | —                                            | 2.4E-02                                  | 2.4E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Uranium (soluble salts)                           | 7440-61-1  | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E-01                                  | 2.2E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Valeric acid (pentanoic acid)                     | 109-52-4   | —                                        | —                                            | 1.2E+01                                  | 1.2E+03                                      | —                                                                                    | —                                                                             | 2.0E+04                                                                              | 2.6E+03                                                                       | —                                        | —                                            | 3.7E+01                                  | 3.7E+03                                      | —                                                                                    | —                                                                             | 2.8E+04                                                                              | 3.6E+03                                                                       |
| Vanadium                                          | 7440-62-2  | —                                        | —                                            | 4.4E-02                                  | 4.4E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 1.3E-01                                  | 1.3E+01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Vernam                                            | 1929-77-7  | —                                        | —                                            | 2.4E-02                                  | 2.4E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 7.3E-02                                  | 7.3E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Vinyl acetate                                     | 108-05-4   | —                                        | —                                            | 2.4E+01                                  | 2.4E+03                                      | —                                                                                    | —                                                                             | 1.4E+04                                                                              | 1.8E+03                                                                       | —                                        | —                                            | 7.3E+01                                  | 7.3E+03                                      | —                                                                                    | —                                                                             | 2.0E+04                                                                              | 2.6E+03                                                                       |
| Vinyl chloride                                    | 75-01-4    | 6.1E-04                                  | 6.1E-02                                      | 7.3E-02                                  | 7.3E+00                                      | 3.8E+00                                                                              | 4.9E-01                                                                       | 8.2E+01                                                                              | 1.1E+01                                                                       | 1.4E-03                                  | 1.4E-01                                      | 2.2E-01                                  | 2.2E+01                                      | 6.4E+00                                                                              | 8.3E-01                                                                       | 1.2E+02                                                                              | 1.5E+01                                                                       |
| Vinylcyclohexane                                  | 695-12-5   | —                                        | —                                            | 1.2E+01                                  | 1.2E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 3.7E+01                                  | 3.7E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Warfarin                                          | 81-81-2    | —                                        | —                                            | 7.3E-03                                  | 7.3E-01                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E-02                                  | 2.2E+00                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| Xylene, m-                                        | 108-38-3   | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                                                    | —                                                                             | 1.1E+04                                                                              | 1.4E+03                                                                       | —                                        | —                                            | 1.5E+02                                  | 1.5E+04                                      | —                                                                                    | —                                                                             | 1.5E+04                                                                              | 1.9E+03                                                                       |
| Xylene, o-                                        | 95-47-6    | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                                                    | —                                                                             | 7.6E+05                                                                              | 9.8E+04                                                                       | —                                        | —                                            | 1.5E+02                                  | 1.5E+04                                      | —                                                                                    | —                                                                             | 1.0E+06                                                                              | 1.4E+05                                                                       |
| Xylene, p-                                        | 106-42-3   | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                                                    | —                                                                             | 9.4E+03                                                                              | 1.2E+03                                                                       | —                                        | —                                            | 1.5E+02                                  | 1.5E+04                                      | —                                                                                    | —                                                                             | 1.3E+04                                                                              | 1.7E+03                                                                       |
| Xylenes                                           | 1330-20-7  | —                                        | —                                            | 4.9E+00                                  | 4.9E+02                                      | —                                                                                    | —                                                                             | 1.0E+04                                                                              | 1.3E+03                                                                       | —                                        | —                                            | 1.5E+01                                  | 1.5E+03                                      | —                                                                                    | —                                                                             | 1.4E+04                                                                              | 1.9E+03                                                                       |
| Zinc                                              | 7440-66-6  | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             | —                                        | —                                            | 2.2E+01                                  | 2.2E+03                                      | —                                                                                    | —                                                                             | —                                                                                    | —                                                                             |
| 6 C aliphatics (TPH) (>53% n-hexane content)      | NA         | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | 1.1E+02                                                                              | 1.4E+01                                                                       | —                                        | —                                            | 4.4E+00                                  | 4.4E+02                                      | —                                                                                    | —                                                                             | 1.5E+02                                                                              | 1.9E+01                                                                       |
| 6 C aliphatics (TPH) (<53% n-hexane content)      | NA         | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                    | —                                                                             | 2.9E+03                                                                              | 3.8E+02                                                                       | —                                        | —                                            | 4.4E+00                                  | 4.4E+02                                      | —                                                                                    | —                                                                             | 4.1E+03                                                                              | 5.3E+02                                                                       |

**Table 8**  
**Tier 1 Individual Residential and Commercial/Industrial Groundwater PCLs**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CAS | Residential                              |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               | Commercial/Industrial                    |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                        |                                                                               | Noncarcinogenic                                                                     |                                                                               | Carcinogenic                             |                                              | Noncarcinogenic                          |                                              | Carcinogenic                                                                        |                                                                               | Noncarcinogenic                                                                     |                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 2</sub> <sup>2</sup><br>(mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 2</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>3</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>3</sup><br>0.5 acre<br>source area<br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 2</sub> <sup>2</sup><br>(mg/L) | GW <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sub>Class 2</sub> <sup>2</sup><br>(mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>3</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>3</sup><br>0.5<br>acre source<br>area (mg/L) | Air <sub>GW<sub>Ing</sub>-V</sub> <sup>30</sup><br>acre source<br>area (mg/L) |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                               | NA  | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                   | —                                                                             | 7.1E+01                                                                             | 9.1E+00                                                                       | —                                        | —                                            | 4.4E+00                                  | 4.4E+02                                      | —                                                                                   | —                                                                             | 9.9E+01                                                                             | 1.3E+01                                                                       |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                               | NA  | —                                        | —                                            | 1.5E+00                                  | 1.5E+02                                      | —                                                                                   | —                                                                             | 1.9E+03                                                                             | 2.5E+02                                                                       | —                                        | —                                            | 4.4E+00                                  | 4.4E+02                                      | —                                                                                   | —                                                                             | 2.7E+03                                                                             | 3.5E+02                                                                       |
| >8-10 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA  | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                             | 3.3E+01                                                                             | 4.3E+00                                                                       | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | 4.6E+01                                                                             | 6.0E+00                                                                       |
| >10-12 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA  | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                             | 2.2E+01                                                                             | 2.8E+00                                                                       | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | 3.1E+01                                                                             | 4.0E+00                                                                       |
| >12-16 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA  | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                             | 5.1E+00                                                                             | 6.6E-01                                                                       | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | 7.1E+00                                                                             | 9.2E-01                                                                       |
| >16-21 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA  | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             | —                                        | —                                            | 1.5E+02                                  | 1.5E+04                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                                                                                                                                                                                                         | NA  | —                                        | —                                            | 3.9E+01                                  | 3.9E+03                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             | —                                        | —                                            | 1.2E+02                                  | 1.2E+04                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| >21-35 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA  | —                                        | —                                            | 4.9E+01                                  | 4.9E+03                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             | —                                        | —                                            | 1.5E+02                                  | 1.5E+04                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                                                                                                                                                                                                         | NA  | —                                        | —                                            | 3.9E+01                                  | 3.9E+03                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             | —                                        | —                                            | 1.2E+02                                  | 1.2E+04                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| >7-8 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | —                                        | —                                            | 2.4E+00                                  | 2.4E+02                                      | —                                                                                   | —                                                                             | 2.9E+04                                                                             | 3.8E+03                                                                       | —                                        | —                                            | 7.3E+00                                  | 7.3E+02                                      | —                                                                                   | —                                                                             | 4.1E+04                                                                             | 5.3E+03                                                                       |
| >8-10 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NA  | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                                                   | —                                                                             | 1.8E+03                                                                             | 2.3E+02                                                                       | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                                                   | —                                                                             | 2.5E+03                                                                             | 3.2E+02                                                                       |
| >10-12 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA  | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                                                   | —                                                                             | 4.3E+03                                                                             | 5.5E+02                                                                       | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                                                   | —                                                                             | 6.0E+03                                                                             | 7.7E+02                                                                       |
| >12-16 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA  | —                                        | —                                            | 9.8E-01                                  | 9.8E+01                                      | —                                                                                   | —                                                                             | 7.5E+03                                                                             | 9.7E+02                                                                       | —                                        | —                                            | 2.9E+00                                  | 2.9E+02                                      | —                                                                                   | —                                                                             | 1.0E+04                                                                             | 1.4E+03                                                                       |
| >16-21 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA  | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| >21-35 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA  | —                                        | —                                            | 7.3E-01                                  | 7.3E+01                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             | —                                        | —                                            | 2.2E+00                                  | 2.2E+02                                      | —                                                                                   | —                                                                             | —                                                                                   | —                                                                             |
| <b>Footnotes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |
| <b>1</b> Based on primary MCLs when available                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |
| <b>2</b> 100 x GW <sub>Ing</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |
| <b>3</b> The total MCL for trihalomethanes (bromodichloromethane, bromoform, chloroform, and dibromochloromethane) is 0.08 mg/L.                                                                                                                                                                                                                                                                                                                                              |     |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |
| * These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <a href="http://www.tceq.state.tx.us/remediation/trrp/trrp.html">http://www.tceq.state.tx.us/remediation/trrp/trrp.html</a> . |     |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |
| NA=Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |
| All values capped at 1E+06                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |                                          |                                              |                                          |                                              |                                                                                     |                                                                               |                                                                                     |                                                                               |

This table shows the residential and commercial/industrial groundwater protective concentration levels with carcinogenic and non-carcinogenic values depicted.

end of worksheet

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    | Groundwater                                                       |                                                            |                                                                |                                                            |                                                                |
|------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|
|                                          |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    | Carcinogenic                                                      |                                                            | Noncarcinogenic                                                |                                                            |                                                                |
|                                          |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Acenaphthene                             | 83-32-9    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+03                                          | 1.6E+04                                           | —                                                                  | 9.4E+02                                                           | —                                                          | —                                                              | 1.5E+00                                                    | 1.5E+02                                                        |
| Acenaphthylene                           | 208-96-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+03                                          | 1.6E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.5E+00                                                    | 1.5E+02                                                        |
| Acetaldehyde                             | 75-07-0    | 1.1E-02                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 9.4E-03                                         | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Acetate, 2-ethoxyethanol                 | 111-15-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.3E-02                                         | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Acetate, isoamyl                         | 123-92-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.8E+00                                                    | 1.8E+02                                                        |
| Acetate, isobutyl                        | 110-19-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E+00                                                    | 1.2E+02                                                        |
| Acetate, sec-butyl                       | 105-46-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E+00                                                    | 1.2E+02                                                        |
| Acetic acid*                             | 64-19-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Acetone (2-propanone)                    | 67-64-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.2E+01                                         | 7.4E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.2E+01                                                    | 2.2E+03                                                        |
| Acetone cyanohydrin                      | 75-86-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.3E-02                                         | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E-02                                                    | 7.3E+00                                                        |
| Acetonitrile                             | 75-05-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.3E-02                                         | 2.6E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.8E-01                                                    | 7.8E+01                                                        |
| Acetophenone                             | 98-86-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Acetylaminofluorene, 2-                  | 53-96-3    | 1.9E-05                                         | 1.6E+00                                          | 5.5E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.4E-04                                                    | 2.4E-02                                                        | —                                                          | —                                                              |
| Acifluorfen, sodium                      | 62476-59-9 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.1E+03                                          | 4.6E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 3.2E-01                                                    | 3.2E+01                                                        |
| Acridine                                 | 260-94-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E-02                                                    | 7.3E+00                                                        |
| Acrolein                                 | 107-02-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.8E-03                                         | 4.1E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E-02                                                    | 1.2E+00                                                        |
| Acrylamide                               | 79-06-1    | 2.4E-04                                         | 1.2E+01                                          | 4.2E+01                                           | —                                                                  | —                                                                 | 6.3E-03                                         | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | 1.8E-03                                                    | 1.8E-01                                                        | 4.9E-02                                                    | 4.9E+00                                                        |
| Acrylic acid                             | 79-10-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 4.1E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E+01                                                    | 1.2E+03                                                        |
| Acrylonitrile                            | 107-13-1   | 3.6E-04                                         | 1.1E+01                                          | —                                                 | —                                                                  | —                                                                 | 2.1E-03                                         | 8.2E+01                                          | —                                                 | —                                                                  | —                                                                 | 1.7E-03                                                    | 1.7E-01                                                        | 2.4E-02                                                    | 2.4E+00                                                        |
| Adipic acid (hexanedioic acid)           | 124-04-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+05                                          | 7.1E+05                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E+01                                                    | 4.9E+03                                                        |
| Alachlor                                 | 15972-60-8 | —                                               | 7.6E+01                                          | 2.6E+02                                           | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | 3.6E+03                                           | —                                                                  | —                                                                 | 1.1E-02                                                    | 1.1E+00                                                        | 2.4E-01                                                    | 2.4E+01                                                        |
| Aldicarb                                 | 116-06-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-02                                                    | 2.4E+00                                                        |
| Aldicarb sulfone                         | 1646-88-4  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-02                                                    | 2.4E+00                                                        |
| Aldrin                                   | 309-00-2   | 5.0E-06                                         | 3.6E-01                                          | 1.2E+00                                           | —                                                                  | 3.4E-02                                                           | —                                               | 2.5E+00                                          | 1.1E+01                                           | —                                                                  | 4.7E-01                                                           | 5.4E-05                                                    | 5.4E-03                                                        | 7.3E-04                                                    | 7.3E-02                                                        |
| Allyl alcohol                            | 107-18-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-04                                         | 4.1E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Allyl chloride                           | 107-05-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 8.2E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-01                                                    | 2.4E+01                                                        |
| Aluminum                                 | 7429-90-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.2E-03                                         | 8.2E+04                                          | 3.6E+05                                           | 6.5E+03                                                            | 1.6E+04                                                           | —                                                          | —                                                              | 2.4E+01                                                    | 2.4E+03                                                        |
| Ametryn                                  | 834-12-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 7.4E+02                                          | 3.2E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.2E-01                                                    | 2.2E+01                                                        |
| Amino-2,6-dinitrotoluene, 4-             | 19406-51-0 | —                                               | 2.0E+02                                          | 6.9E+02                                           | —                                                                  | —                                                                 | —                                               | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | —                                                                 | 3.0E-02                                                    | 3.0E+00                                                        | 1.2E-02                                                    | 1.2E+00                                                        |
| Amino-4,6-dinitrotoluene, 2-             | 35572-78-2 | —                                               | 2.0E+02                                          | 6.9E+02                                           | —                                                                  | —                                                                 | —                                               | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | —                                                                 | 3.0E-02                                                    | 3.0E+00                                                        | 1.2E-02                                                    | 1.2E+00                                                        |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine) | 92-67-1    | —                                               | 1.0E+00                                          | 3.4E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.5E-04                                                    | 1.5E-02                                                        | —                                                          | —                                                              |
| Aminopyridine, 4-                        | 504-24-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+00                                          | 7.1E+00                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-04                                                    | 4.9E-02                                                        |
| Ammonia                                  | 7664-41-7  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.3E-01                                         | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Ammonium polyphosphate*                  | 6833-79-9  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Ammonium salts*                          | AMMONIUM   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Aniline                                  | 62-53-3    | —                                               | 1.1E+03                                          | 3.6E+03                                           | —                                                                  | —                                                                 | 1.0E-03                                         | 5.7E+02                                          | 2.5E+03                                           | —                                                                  | —                                                                 | 1.6E-01                                                    | 1.6E+01                                                        | 1.7E-01                                                    | 1.7E+01                                                        |
| Anthracene                               | 120-12-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+04                                          | 8.2E+04                                           | —                                                                  | 4.7E+03                                                           | —                                                          | —                                                              | 7.3E+00                                                    | 7.3E+02                                                        |
| Anthraquinone, 9,10-                     | 84-65-1    | —                                               | 1.6E+02                                          | 5.3E+02                                           | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | 2.3E-02                                                    | 2.3E+00                                                        | 4.9E-01                                                    | 4.9E+01                                                        |
| Antimony                                 | 7440-36-0  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+01                                          | 2.1E+02                                           | 2.6E+00                                                            | 6.3E+00                                                           | —                                                          | —                                                              | 9.8E-03                                                    | 9.8E-01                                                        |
| Aramite                                  | 140-57-8   | 3.4E-03                                         | 2.4E+02                                          | 8.3E+02                                           | —                                                                  | 2.3E+01                                                           | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | 7.8E+02                                                           | 3.7E-02                                                    | 3.7E+00                                                        | 1.2E+00                                                    | 1.2E+02                                                        |
| Arsenic                                  | 7440-38-2  | 1.6E-04                                         | 5.2E+01                                          | 4.6E+02                                           | 1.7E+00                                                            | 3.9E+00                                                           | —                                               | 3.1E+01                                          | 3.6E+02                                           | 2.0E+00                                                            | 4.7E+00                                                           | 6.1E-03                                                    | 6.1E-01                                                        | 7.3E-03                                                    | 7.3E-01                                                        |
| Arsine                                   | 7784-42-1  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.2E-05                                         | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Atrazine                                 | 1912-24-9  | —                                               | 2.7E+01                                          | 9.4E+01                                           | —                                                                  | —                                                                 | —                                               | 2.9E+03                                          | 1.2E+04                                           | —                                                                  | —                                                                 | 4.1E-03                                                    | 4.1E-01                                                        | 8.6E-01                                                    | 8.6E+01                                                        |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|-----------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                               |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                               |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Azinphos-methyl (guthion)                     | 86-50-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.2E+02                                          | 5.3E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.7E-02                                       | 3.7E+00                                           |
| Azobenzene                                    | 103-33-3   | 7.8E-04                                         | 5.5E+01                                          | 1.9E+02                                           | —                                                                  | 5.3E+00                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.3E-03                                       | 8.3E-01                                           | —                                             | —                                                 |
| Barium                                        | 7440-39-3  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+04                                          | 5.0E+04                                           | 1.3E+03                                                            | 3.1E+03                                                           | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Bayleton                                      | 43121-43-3 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Benefin (benfluralin)                         | 1861-40-1  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+04                                          | 1.1E+05                                           | —                                                                  | 4.7E+03                                                           | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Benomyl                                       | 17804-35-2 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Benz-a-anthracene                             | 56-55-3    | 4.1E-04                                         | 6.1E+01                                          | 1.6E+02                                           | —                                                                  | 5.8E+00                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.1E-03                                       | 9.1E-01                                           | —                                             | —                                                 |
| Benzaldehyde                                  | 100-52-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Benzene                                       | 71-43-2    | 1.1E-02                                         | 4.0E+02                                          | —                                                 | —                                                                  | —                                                                 | 2.9E-01                                         | 3.3E+02                                          | —                                                 | —                                                                  | —                                                                 | 6.1E-02                                       | 6.1E+00                                           | 9.8E-02                                       | 9.8E+00                                           |
| Benzenedicarbonitrile, 1,3-                   | 626-17-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+02                                          | 2.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.2E-03                                         | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | 6.3E+02                                                           | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Benzenethiol                                  | 108-98-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-02                                       | 2.4E+00                                           |
| Benzdine                                      | 92-87-5    | 3.6E-07                                         | 2.6E-02                                          | 9.0E-02                                           | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | 4.0E-06                                       | 4.0E-04                                           | 7.3E-02                                       | 7.3E+00                                           |
| Benzo-a-pyrene                                | 50-32-8    | 4.1E-05                                         | 6.1E+00                                          | 1.6E+01                                           | —                                                                  | 5.8E-01                                                           | 2.1E-06                                         | 2.5E+01                                          | 8.2E+01                                           | —                                                                  | 4.7E+00                                                           | 9.1E-04                                       | 9.1E-02                                           | 7.3E-03                                       | 7.3E-01                                           |
| Benzo-b-fluoranthene                          | 205-99-2   | 4.1E-04                                         | 6.1E+01                                          | 1.6E+02                                           | —                                                                  | 5.8E+00                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.1E-03                                       | 9.1E-01                                           | —                                             | —                                                 |
| Benzo-e-pyrene                                | 192-97-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 8.2E+03                                           | —                                                                  | 4.7E+02                                                           | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Benzo-g,h,i-perylene                          | 191-24-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 8.2E+03                                           | —                                                                  | 4.7E+02                                                           | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Benzoic acid                                  | 65-85-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+05                                          | 1.0E+06                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E+01                                       | 9.8E+03                                           |
| Benzo-j-fluoranthene                          | 205-82-3   | 4.1E-04                                         | 6.1E+01                                          | 1.6E+02                                           | —                                                                  | 5.8E+00                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.1E-03                                       | 9.1E-01                                           | —                                             | —                                                 |
| Benzo-k-fluoranthene                          | 207-08-9   | 4.1E-03                                         | 6.1E+02                                          | 1.6E+03                                           | —                                                                  | 5.8E+01                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.1E-02                                       | 9.1E+00                                           | —                                             | —                                                 |
| Benzophenone                                  | 119-61-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.5E+02                                          | 2.4E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.6E-01                                       | 1.6E+01                                           |
| Benotrichloride                               | 98-07-7    | —                                               | 4.7E-01                                          | 1.6E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.0E-05                                       | 7.0E-03                                           | —                                             | —                                                 |
| Benzoyl peroxide                              | 94-36-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Benzyl alcohol                                | 100-51-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Benzyl chloride                               | 100-44-7   | —                                               | 3.6E+01                                          | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 1.6E+02                                          | —                                                 | —                                                                  | —                                                                 | 5.4E-03                                       | 5.4E-01                                           | 4.9E-02                                       | 4.9E+00                                           |
| Benzyl dichloride                             | 98-87-3    | —                                               | 3.6E+01                                          | 1.2E+02                                           | —                                                                  | —                                                                 | 1.0E-03                                         | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | 5.4E-03                                       | 5.4E-01                                           | 4.9E-02                                       | 4.9E+00                                           |
| Beryllium                                     | 7440-41-7  | 1.0E-05                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-06                                         | 1.6E+02                                          | 5.0E+01                                           | 1.3E+01                                                            | 3.1E+01                                                           | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Biphenyl, 1,1'-                               | 92-52-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+04                                          | 1.8E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+01                                       | 1.2E+03                                           |
| Biphenyl, 1,1'-, 2-phenoxy-                   | 6738-04-1  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | 7.8E+02                                                           | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Biquinoline, 2,2'-                            | 119-91-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | 4.7E+01                                                           | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Bis (2-chloroethoxy) methane                  | 111-91-1   | 7.4E-05                                         | 5.5E+00                                          | 1.9E+01                                           | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | 8.3E-04                                       | 8.3E-02                                           | 7.3E-02                                       | 7.3E+00                                           |
| Bis (2-chloroethyl) ether                     | 111-44-4   | 7.4E-05                                         | 5.5E+00                                          | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.3E-04                                       | 8.3E-02                                           | —                                             | —                                                 |
| Bis (2-chloro-1-methylethyl) ether            | 108-60-1   | 2.4E-03                                         | 8.7E+01                                          | 3.0E+02                                           | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | —                                                                 | 1.3E-02                                       | 1.3E+00                                           | 9.8E-01                                       | 9.8E+01                                           |
| Bis (2-chloromethyl) ether                    | 542-88-1   | 3.9E-07                                         | 2.8E-02                                          | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.1E-06                                       | 4.1E-04                                           | —                                             | —                                                 |
| Bis (2-ethyl-hexyl) phthalate                 | 117-81-7   | —                                               | 4.3E+02                                          | 2.8E+02                                           | —                                                                  | 4.2E+01                                                           | —                                               | 1.6E+03                                          | 1.4E+03                                           | —                                                                  | 3.1E+02                                                           | 6.5E-02                                       | 6.5E+00                                           | 4.9E-01                                       | 4.9E+01                                           |
| Bismuth                                       | 7440-69-9  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+04                                          | 3.6E+05                                           | 3.3E+03                                                            | —                                                                 | —                                             | —                                                 | 1.2E+01                                       | 1.2E+03                                           |
| Bisphenol A                                   | 80-05-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Boron                                         | 7440-42-8  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-02                                         | 1.6E+04                                          | 7.1E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Bromacil                                      | 314-40-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Bromo-2-chloroethane, 1-                      | 107-04-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Bromobenzene                                  | 108-86-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.3E-02                                         | 6.6E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.0E-01                                       | 2.0E+01                                           |
| Bromodichloromethane                          | 75-27-4    | —                                               | 9.8E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 6.6E+02                                          | —                                                 | —                                                                  | —                                                                 | 1.5E-02                                       | 1.5E+00                                           | 2.0E-01                                       | 2.0E+01                                           |
| Bromoform <sup>3</sup>                        | 75-25-2    | 2.2E-02                                         | 7.7E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | —                                                 | —                                                                  | —                                                                 | 1.2E-01                                       | 1.2E+01                                           | 4.9E-01                                       | 4.9E+01                                           |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                                        | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|------------------------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                            |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                            |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Bromomethane                                               | 74-83-9    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.1E-03                                         | 1.1E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 3.4E-02                                       | 3.4E+00                                           |
| Bromophenyl phenylether, 4-                                | 101-55-3   | 7.4E-06                                         | 4.0E-01                                          | 1.4E+00                                           | —                                                                  | 3.9E-02                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.1E-05                                       | 6.1E-03                                           | —                                             | —                                                 |
| Butadiene, 1,3-                                            | 106-99-0   | 4.9E-02                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 3.4E-02                                         | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Butadiene, 2-methyl-1,3- (isoprene)                        | 78-79-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Butanal (butyraldehyde)                                    | 123-72-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Butane, 2,3-dimethyl-                                      | 79-29-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Butanoic acid (butyric acid)                               | 107-92-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 4.1E+04                                          | 1.8E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+01                                       | 1.2E+03                                           |
| Butanol, 2-                                                | 78-92-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E+01                                         | 1.6E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| Butanol, 2-methyl-1-                                       | 137-32-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-01                                       | 2.4E+01                                           |
| Butanol, 2-methyl-2-                                       | 75-85-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-01                                       | 2.4E+01                                           |
| Butanol, n-                                                | 71-36-3    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Butene, 1-                                                 | 106-98-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.5E+00                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Butene, cis-2-                                             | 590-18-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.7E+00                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Butene, trans-2-                                           | 624-64-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.7E+00                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.7E+00                                         | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Butyl acetate                                              | 123-86-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.9E+00                                         | 1.1E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 3.4E+00                                       | 3.4E+02                                           |
| Butyl acrylate                                             | 141-32-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 7.4E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Butyl benzyl phthalate                                     | 85-68-7    | —                                               | 3.2E+03                                          | 1.1E+04                                           | —                                                                  | 3.1E+02                                                           | —                                               | 1.6E+04                                          | 7.1E+04                                           | —                                                                  | 3.1E+03                                                           | 4.8E-01                                       | 4.8E+01                                           | 4.9E+00                                       | 4.9E+02                                           |
| Butyl ether, n- (dibutyl ether)                            | 142-96-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Butyl methacrylate                                         | 97-88-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 7.4E+03                                          | 6.4E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Butylate                                                   | 2008-41-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Butylbenzene, n-                                           | 104-51-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Butylbenzene, sec-                                         | 135-98-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Butylbenzene, tert-                                        | 98-06-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Cacodylic acid                                             | 75-60-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Cadmium                                                    | 7440-43-9  | 5.0E-05                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 1.1E-05                                         | 2.6E+02                                          | 2.3E+03                                           | 1.1E+01                                                            | 2.6E+01                                                           | —                                             | —                                                 | 2.4E-02                                       | 2.4E+00                                           |
| Calcium*                                                   | 7440-70-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Caprolactam                                                | 105-60-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+04                                          | 1.8E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+01                                       | 1.2E+03                                           |
| Captan                                                     | 133-06-2   | —                                               | 1.7E+03                                          | 5.9E+03                                           | —                                                                  | —                                                                 | —                                               | 1.1E+04                                          | 4.6E+04                                           | —                                                                  | —                                                                 | 2.6E-01                                       | 2.6E+01                                           | 3.2E+00                                       | 3.2E+02                                           |
| Carbaryl                                                   | 63-25-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Carbazole                                                  | 86-74-8    | —                                               | 3.0E+02                                          | 1.0E+03                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.6E-02                                       | 4.6E+00                                           | —                                             | —                                                 |
| Carbofuran                                                 | 1563-66-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E-01                                       | 1.2E+01                                           |
| Carbon disulfide                                           | 75-15-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.3E-01                                         | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Carbon tetrachloride                                       | 56-23-5    | 6.8E-03                                         | 8.7E+01                                          | —                                                 | —                                                                  | —                                                                 | 1.7E-01                                         | 3.3E+02                                          | —                                                 | —                                                                  | —                                                                 | 1.3E-02                                       | 1.3E+00                                           | 9.8E-02                                       | 9.8E+00                                           |
| Carbophenothion                                            | 786-19-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.1E+03                                          | 4.6E+03                                           | —                                                                  | 2.0E+02                                                           | —                                             | —                                                 | 3.2E-01                                       | 3.2E+01                                           |
| Carbosulfan                                                | 55285-14-8 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | 3.6E+03                                           | —                                                                  | 1.6E+02                                                           | —                                             | —                                                 | 2.4E-01                                       | 2.4E+01                                           |
| Carboxin                                                   | 5234-68-4  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Chloral                                                    | 75-87-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)         | 302-17-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid)      | 133-90-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.2E+03                                          | 5.3E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Chlordane (technical)                                      | 12789-03-6 | 2.4E-04                                         | 1.7E+01                                          | 1.5E+02                                           | —                                                                  | 1.7E+00                                                           | 7.3E-04                                         | 4.1E+01                                          | 4.4E+02                                           | —                                                                  | 7.8E+00                                                           | 2.6E-03                                       | 2.6E-01                                           | 1.2E-02                                       | 1.2E+00                                           |
| Chlordane, cis- (alpha chlordane)                          | 5103-71-9  | 2.4E-04                                         | 1.7E+01                                          | 5.9E+01                                           | —                                                                  | 1.7E+00                                                           | 7.3E-04                                         | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | 7.8E+00                                                           | 2.6E-03                                       | 2.6E-01                                           | 1.2E-02                                       | 1.2E+00                                           |
| Chlordane, trans- (gamma chlordane)                        | 5103-74-2  | 2.4E-04                                         | 1.7E+01                                          | 5.9E+01                                           | —                                                                  | 1.7E+00                                                           | 7.3E-04                                         | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | 7.8E+00                                                           | 2.6E-03                                       | 2.6E-01                                           | 1.2E-02                                       | 1.2E+00                                           |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                                |                                                                |                                                            |                                                                |
|---------------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|
|                                                   |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                               |                                                                | Noncarcinogenic                                            |                                                                |
|                                                   |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Chlorfenvinphos                                   | 470-90-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-03                                         | 5.7E+01                                          | 2.5E+02                                           | —                                                                  | 1.1E+01                                                           | —                                                          | —                                                              | 1.7E-02                                                    | 1.7E+00                                                        |
| Chloride*                                         | 16887-00-6 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Chlorine                                          | 7782-50-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.1E-03                                         | 8.2E+03                                          | 7.1E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Chloro-1,3-butadiene, 2-                          | 126-99-8   | 8.1E-05                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-02                                         | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Chloro-2-propanol, 1-                             | 127-00-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-01                                                    | 4.9E+01                                                        |
| Chloro-3-methylphenol, 4-                         | 59-50-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Chloroaniline, p-                                 | 106-47-8   | —                                               | 3.0E+01                                          | 1.0E+02                                           | —                                                                  | —                                                                 | —                                               | 3.3E+02                                          | 1.4E+03                                           | —                                                                  | —                                                                 | 4.6E-03                                                    | 4.6E-01                                                        | 9.8E-02                                                    | 9.8E+00                                                        |
| Chlorobenzene                                     | 108-90-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.2E-02                                         | 1.6E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-01                                                    | 4.9E+01                                                        |
| Chlorobenzilate                                   | 510-15-6   | 3.1E-04                                         | 2.2E+01                                          | 7.7E+01                                           | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | 3.4E-03                                                    | 3.4E-01                                                        | 4.9E-01                                                    | 4.9E+01                                                        |
| Chlorobromomethane (bromochloromethane)           | 74-97-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E-01                                                    | 9.8E+01                                                        |
| Chlorodifluoromethane                             | 75-45-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.2E+01                                         | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Chloroethane (ethyl chloride)                     | 75-00-3    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E+01                                         | 3.3E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E+00                                                    | 9.8E+02                                                        |
| Chloroethanol, 2-                                 | 107-07-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-01                                                    | 4.9E+01                                                        |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether) | 110-75-8   | —                                               | 5.5E+00                                          | —                                                 | —                                                                  | —                                                                 | 3.1E-04                                         | 1.6E+02                                          | —                                                 | —                                                                  | —                                                                 | 8.3E-04                                                    | 8.3E-02                                                        | 4.9E-02                                                    | 4.9E+00                                                        |
| Chloroform <sup>3</sup>                           | 67-66-3    | 1.1E-03                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-01                                         | 8.2E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-01                                                    | 2.4E+01                                                        |
| Chlorohexane, 1-                                  | 544-10-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E+00                                         | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E-01                                                    | 9.8E+01                                                        |
| Chloromethane (methyl chloride)                   | 74-87-3    | 1.4E-02                                         | 4.7E+02                                          | —                                                 | —                                                                  | —                                                                 | 9.4E-02                                         | 2.9E+02                                          | —                                                 | —                                                                  | —                                                                 | 7.0E-02                                                    | 7.0E+00                                                        | 8.8E-02                                                    | 8.8E+00                                                        |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-) | 90-13-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.6E+03                                          | 2.2E+04                                           | —                                                                  | 1.3E+03                                                           | —                                                          | —                                                              | 2.0E+00                                                    | 2.0E+02                                                        |
| Chloronaphthalene, 2- (chloronaphthalene, beta)   | 91-58-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.6E+03                                          | 2.2E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.0E+00                                                    | 2.0E+02                                                        |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)  | 100-00-5   | —                                               | 9.6E+02                                          | 3.3E+03                                           | —                                                                  | —                                                                 | 6.3E-04                                         | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | 1.4E-01                                                    | 1.4E+01                                                        | 2.4E-02                                                    | 2.4E+00                                                        |
| Chlorophenol, 2-                                  | 95-57-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Chlorophenol, 3-                                  | 108-43-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Chlorophenol, 4-                                  | 106-48-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Chlorophenyl phenylether, 4-                      | 7005-72-3  | 7.4E-06                                         | 4.0E-01                                          | 1.4E+00                                           | —                                                                  | 3.9E-02                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.1E-05                                                    | 6.1E-03                                                        | —                                                          | —                                                              |
| Chloropropane, 2-                                 | 75-29-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-01                                         | 2.5E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E-01                                                    | 7.3E+01                                                        |
| Chlorothalonil                                    | 1897-45-6  | —                                               | 5.5E+02                                          | 1.9E+03                                           | —                                                                  | —                                                                 | —                                               | 1.2E+03                                          | 5.3E+03                                           | —                                                                  | —                                                                 | 8.3E-02                                                    | 8.3E+00                                                        | 3.7E-01                                                    | 3.7E+01                                                        |
| Chlorotoluene, o- (2-chlorotoluene)               | 95-49-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.3E-01                                         | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-01                                                    | 4.9E+01                                                        |
| Chlorotoluene, p- (4-chlorotoluene)               | 106-43-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-01                                                    | 4.9E+01                                                        |
| Chlorpyrifos                                      | 2921-88-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | 4.7E+01                                                           | —                                                          | —                                                              | 7.3E-02                                                    | 7.3E+00                                                        |
| Chromium (III)                                    | 16065-83-1 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.5E-04                                         | 1.2E+05                                          | 6.9E+04                                           | 9.8E+03                                                            | 2.3E+04                                                           | —                                                          | —                                                              | 3.7E+01                                                    | 3.7E+03                                                        |
| Chromium (total)                                  | 7440-47-3  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.5E-04                                         | 1.2E+05                                          | 6.9E+04                                           | 9.8E+03                                                            | 2.3E+04                                                           | —                                                          | —                                                              | 3.7E+01                                                    | 3.7E+03                                                        |
| Chromium (VI)                                     | 18540-29-9 | 1.1E-05                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 2.3E-04                                         | 2.5E+02                                          | 2.7E+02                                           | 2.0E+01                                                            | 4.8E+01                                                           | —                                                          | —                                                              | 7.6E-02                                                    | 7.6E+00                                                        |
| Chrysene                                          | 218-01-9   | 4.1E-02                                         | 6.1E+03                                          | 1.6E+04                                           | —                                                                  | 5.8E+02                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.1E-01                                                    | 9.1E+01                                                        | —                                                          | —                                                              |
| Cobalt                                            | 7440-48-4  | 4.1E-06                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 6.6E-05                                         | 8.2E+02                                          | 3.6E+04                                           | 6.5E+01                                                            | 1.6E+02                                                           | —                                                          | —                                                              | 2.4E-01                                                    | 2.4E+01                                                        |
| Copolymer acrylamide                              | 69418-26-4 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+01                                          | 7.1E+01                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-03                                                    | 4.9E-01                                                        |
| Copper                                            | 7440-50-8  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 7.9E+03                                          | 3.4E+05                                           | 6.3E+02                                                            | 1.5E+03                                                           | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Coronene                                          | 191-07-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | 3.1E+01                                                           | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Coumaphos                                         | 56-72-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.7E+02                                          | 2.5E+03                                           | —                                                                  | 1.1E+02                                                           | —                                                          | —                                                              | 1.7E-01                                                    | 1.7E+01                                                        |
| Cresol                                            | 1319-77-3  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E+00                                                    | 1.2E+02                                                        |
| Cresol, m- (3-methylphenol)                       | 108-39-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E+00                                                    | 1.2E+02                                                        |
| Cresol, o- (2-methylphenol)                       | 95-48-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E+00                                                    | 1.2E+02                                                        |
| Cresol, p- (4-methylphenol)                       | 106-44-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Crotonaldehyde                                    | 123-73-9   | —                                               | 3.2E+00                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | —                                                 | —                                                                  | —                                                                 | 4.8E-04                                                    | 4.8E-02                                                        | 2.4E-02                                                    | 2.4E+00                                                        |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                                      | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|----------------------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                          |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                          |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Cumene (isopropylbenzene)                                | 98-82-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.2E-01                                         | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Cyanazine                                                | 21725-46-2 | —                                               | 7.2E+00                                          | 2.5E+01                                           | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | 1.1E-03                                       | 1.1E-01                                           | 4.9E-02                                       | 4.9E+00                                           |
| Cyanide                                                  | 57-12-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.3E-04                                         | 4.9E+01                                          | 2.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E-02                                       | 1.5E+00                                           |
| Cyanogen                                                 | 460-19-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.3E-04                                         | 8.2E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-02                                       | 2.4E+00                                           |
| Cycloate                                                 | 1134-23-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.5E+03                                          | 2.0E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.3E+00                                       | 1.3E+02                                           |
| Cyclohexane                                              | 110-82-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.3E+00                                         | 4.1E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+02                                       | 1.2E+04                                           |
| Cyclohexanol                                             | 108-93-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+05                                          | 1.0E+06                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+02                                       | 1.2E+04                                           |
| Cyclohexanone                                            | 108-94-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.3E-01                                         | 4.1E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+02                                       | 1.2E+04                                           |
| Cyclohexene, 1-methanol-3-                               | 1679-51-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-01                                       | 4.9E+01                                           |
| Cyclohexene, 4-vinyl-1-                                  | 100-40-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.4E-01                                         | 1.8E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 5.4E-01                                       | 5.4E+01                                           |
| Cyclopentane                                             | 287-92-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.5E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Cyclopentane, methyl-                                    | 96-37-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E+00                                         | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Cyclopentene                                             | 142-29-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+02                                       | 1.2E+04                                           |
| Cyclotetramethylenetetranitramine (HMX)                  | 2691-41-0  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 2.7E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Cyclotrimethylenetrinitramine (RDX)                      | 121-82-4   | —                                               | 7.6E+01                                          | 2.6E+02                                           | —                                                                  | —                                                                 | —                                               | 3.3E+02                                          | 1.4E+03                                           | —                                                                  | —                                                                 | 1.1E-02                                       | 1.1E+00                                           | 9.8E-02                                       | 9.8E+00                                           |
| Cymene (isopropyltoluene)                                | 99-87-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Cymoxanil                                                | 57966-95-7 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.1E+03                                          | 4.6E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.2E-01                                       | 3.2E+01                                           |
| Dacthal (DCPA)                                           | 1861-32-1  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | 3.6E+03                                           | —                                                                  | 1.6E+02                                                           | —                                             | —                                                 | 2.4E-01                                       | 2.4E+01                                           |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)        | 75-99-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| DDD                                                      | 72-54-8    | —                                               | 2.5E+01                                          | 2.9E+02                                           | —                                                                  | 2.4E+00                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.8E-03                                       | 3.8E-01                                           | —                                             | —                                                 |
| DDE                                                      | 72-55-9    | —                                               | 1.8E+01                                          | 2.0E+02                                           | —                                                                  | 1.7E+00                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.7E-03                                       | 2.7E-01                                           | —                                             | —                                                 |
| DDT                                                      | 50-29-3    | 2.5E-04                                         | 1.8E+01                                          | 2.0E+02                                           | —                                                                  | 1.7E+00                                                           | —                                               | 4.1E+01                                          | 5.9E+02                                           | —                                                                  | 7.8E+00                                                           | 2.7E-03                                       | 2.7E-01                                           | 1.2E-02                                       | 1.2E+00                                           |
| Demeton                                                  | 8065-48-3  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+00                                          | 1.4E+01                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-04                                       | 9.8E-02                                           |
| Desethylatrazine                                         | 6190-65-4  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.9E+03                                          | 1.2E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 8.6E-01                                       | 8.6E+01                                           |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone)       | 123-42-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Diallate                                                 | 2303-16-4  | —                                               | 1.0E+02                                          | 3.4E+02                                           | —                                                                  | 9.6E+00                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.5E-02                                       | 1.5E+00                                           | —                                             | —                                                 |
| Diazinon                                                 | 333-41-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-04                                         | 7.4E+01                                          | 3.2E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Dibenz(a,h)acridine                                      | 226-36-8   | 2.2E-04                                         | 5.1E+00                                          | 1.7E+01                                           | —                                                                  | 4.9E-01                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.6E-04                                       | 7.6E-02                                           | —                                             | —                                                 |
| Dibenz(a,j)acridine                                      | 224-42-0   | 2.8E-04                                         | 8.3E+00                                          | 2.2E+01                                           | —                                                                  | 8.0E-01                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.3E-03                                       | 1.3E-01                                           | —                                             | —                                                 |
| Dibenz-a,h-anthracene                                    | 53-70-3    | 4.1E-05                                         | 6.1E+00                                          | 1.6E+01                                           | —                                                                  | 5.8E-01                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.1E-04                                       | 9.1E-02                                           | —                                             | —                                                 |
| Dibenzo(a,e)pyrene                                       | 192-65-4   | 2.8E-05                                         | 8.3E-01                                          | 2.8E+00                                           | —                                                                  | 8.0E-02                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.3E-04                                       | 1.3E-02                                           | —                                             | —                                                 |
| Dibenzo(a,h)pyrene                                       | 189-64-0   | 2.8E-06                                         | 8.3E-02                                          | 2.8E-01                                           | —                                                                  | 8.0E-03                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.3E-05                                       | 1.3E-03                                           | —                                             | —                                                 |
| Dibenzo(a,i)pyrene                                       | 189-55-9   | 2.8E-06                                         | 8.3E-02                                          | 2.8E-01                                           | —                                                                  | 8.0E-03                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.3E-05                                       | 1.3E-03                                           | —                                             | —                                                 |
| Dibenzofuran                                             | 132-64-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+02                                          | 1.4E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-02                                       | 9.8E+00                                           |
| Dibenzothiophene                                         | 132-65-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | 4.7E+01                                                           | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Dibromo-3-chloropropane, 1,2-                            | 96-12-8    | 4.1E-06                                         | 7.6E+00                                          | 2.6E+01                                           | —                                                                  | —                                                                 | 2.1E-04                                         | 1.6E+01                                          | 7.1E+01                                           | —                                                                  | —                                                                 | 1.1E-03                                       | 1.1E-01                                           | 4.9E-03                                       | 4.9E-01                                           |
| Dibromochloromethane (chlorodibromomethane) <sup>3</sup> | 124-48-1   | —                                               | 7.2E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | —                                                 | —                                                                  | —                                                                 | 1.1E-02                                       | 1.1E+00                                           | 4.9E-01                                       | 4.9E+01                                           |
| Dibromofluoromethane                                     | 1868-53-7  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Dicamba                                                  | 1918-00-9  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Dichlormid                                               | 37764-25-3 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.0E+03                                          | 8.9E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 6.1E-01                                       | 6.1E+01                                           |
| Dichloro-2-butene, 1,4-                                  | 764-41-0   | 5.8E-06                                         | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Dichloro-2-butene, 1,4- trans                            | 110-57-6   | 5.8E-06                                         | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Dichlorobenzene, 1,2-                                    | 95-50-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-02                                         | 7.4E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|-------------------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                       |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                       |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Dichlorobenzene, 1,3-                                 | 541-73-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.3E-03                                         | 2.5E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Dichlorobenzene, 1,4-                                 | 106-46-7   | —                                               | 2.5E+02                                          | —                                                 | —                                                                  | —                                                                 | 5.5E-01                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 3.8E-02                                       | 3.8E+00                                           | —                                             | —                                                 |
| Dichlorobenzidine, 3,3'-                              | 91-94-1    | —                                               | 1.3E+01                                          | 4.6E+01                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.0E-03                                       | 2.0E-01                                           | —                                             | —                                                 |
| Dichlorobutane, 2,3-                                  | 7581-97-7  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.3E-03                                         | 8.2E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-01                                       | 2.4E+01                                           |
| Dichlorodifluoromethane                               | 75-71-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-01                                         | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Dichloroethane, 1,1-                                  | 75-34-3    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.5E+00                                         | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Dichloroethane, 1,2-                                  | 107-06-2   | 7.2E-03                                         | 6.7E+01                                          | —                                                 | —                                                                  | —                                                                 | 4.6E-02                                         | 6.4E+03                                          | —                                                 | —                                                                  | —                                                                 | 1.0E-02                                       | 1.0E+00                                           | 1.9E+00                                       | 1.9E+02                                           |
| Dichloroethylene, 1,1-                                | 75-35-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.5E-01                                         | 4.1E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Dichloroethylene, cis-1,2-                            | 156-59-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.3E-02                                         | 1.6E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Dichloroethylene, trans-1,2                           | 156-60-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.3E-02                                         | 1.6E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-01                                       | 4.9E+01                                           |
| Dichlorofluoromethane                                 | 75-43-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Dichlorophenol, 2,3-                                  | 576-24-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Dichlorophenol, 2,4-                                  | 120-83-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Dichlorophenol, 2,5-                                  | 583-78-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Dichlorophenol, 2,6-                                  | 87-65-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-02                                       | 2.4E+00                                           |
| Dichlorophenol, 3,4-                                  | 95-77-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Dichlorophenol, 3,5-                                  | 591-35-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)       | 94-82-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.6E+02                                          | 2.8E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.0E-01                                       | 2.0E+01                                           |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)              | 94-75-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+04                                          | 1.4E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid) | 120-36-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | 3.6E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-01                                       | 2.4E+01                                           |
| Dichloropropane, 1,2-                                 | 78-87-5    | 2.6E-02                                         | 1.6E+02                                          | —                                                 | —                                                                  | —                                                                 | 4.2E-03                                         | 1.1E+04                                          | —                                                 | —                                                                  | —                                                                 | 2.5E-02                                       | 2.5E+00                                           | 3.2E+00                                       | 3.2E+02                                           |
| Dichloropropane, 1,3-                                 | 142-28-9   | 6.1E-03                                         | 6.1E+01                                          | —                                                 | —                                                                  | —                                                                 | 2.1E-02                                         | 1.6E+03                                          | —                                                 | —                                                                  | —                                                                 | 9.1E-03                                       | 9.1E-01                                           | 4.9E-01                                       | 4.9E+01                                           |
| Dichloropropane, 2,2-                                 | 594-20-7   | —                                               | 8.9E+01                                          | —                                                 | —                                                                  | —                                                                 | 4.2E-03                                         | 7.4E+03                                          | —                                                 | —                                                                  | —                                                                 | 1.3E-02                                       | 1.3E+00                                           | 2.2E+00                                       | 2.2E+02                                           |
| Dichloropropanol, 2,3-                                | 616-23-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Dichloropropene, 1,1-                                 | 563-58-6   | 6.1E-03                                         | 6.1E+01                                          | —                                                 | —                                                                  | —                                                                 | 2.1E-02                                         | 2.5E+03                                          | —                                                 | —                                                                  | —                                                                 | 9.1E-03                                       | 9.1E-01                                           | 7.3E-01                                       | 7.3E+01                                           |
| Dichloropropene, 1,3- (mixed isomers)                 | 542-75-6   | 6.1E-03                                         | 6.1E+01                                          | —                                                 | —                                                                  | —                                                                 | 2.1E-02                                         | 2.5E+03                                          | —                                                 | —                                                                  | —                                                                 | 9.1E-03                                       | 9.1E-01                                           | 7.3E-01                                       | 7.3E+01                                           |
| Dichloropropene, cis 1,3-                             | 10061-01-5 | —                                               | 1.1E+01                                          | —                                                 | —                                                                  | —                                                                 | 2.1E-02                                         | 8.2E+00                                          | —                                                 | —                                                                  | —                                                                 | 1.7E-03                                       | 1.7E-01                                           | 2.4E-03                                       | 2.4E-01                                           |
| Dichloropropene, trans 1,3-                           | 10061-02-6 | 6.1E-03                                         | 6.1E+01                                          | —                                                 | —                                                                  | —                                                                 | 2.1E-02                                         | 2.5E+03                                          | —                                                 | —                                                                  | —                                                                 | 9.1E-03                                       | 9.1E-01                                           | 7.3E-01                                       | 7.3E+01                                           |
| Dichlorvos                                            | 62-73-7    | —                                               | 2.1E+01                                          | 7.2E+01                                           | —                                                                  | —                                                                 | 5.2E-04                                         | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | —                                                                 | 3.1E-03                                       | 3.1E-01                                           | 1.2E-02                                       | 1.2E+00                                           |
| Dicrotophos (bidrin)                                  | 141-66-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+00                                          | 3.6E+01                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-03                                       | 2.4E-01                                           |
| Dicyclopentadiene                                     | 77-73-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.6E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.0E+00                                       | 2.0E+02                                           |
| Dieldrin                                              | 60-57-1    | 5.3E-06                                         | 3.8E-01                                          | 1.3E+00                                           | —                                                                  | 3.7E-02                                                           | —                                               | 4.1E+00                                          | 1.8E+01                                           | —                                                                  | 7.8E-01                                                           | 5.7E-05                                       | 5.7E-03                                           | 1.2E-03                                       | 1.2E-01                                           |
| Diethanolamine                                        | 111-42-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.6E-02                                         | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E-02                                       | 1.2E+00                                           |
| Diethyldithiocarbamate, sodium salt                   | 148-18-5   | —                                               | 2.2E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | —                                                 | —                                                                  | —                                                                 | 3.4E-03                                       | 3.4E-01                                           | 7.3E-01                                       | 7.3E+01                                           |
| Diethyl phthalate                                     | 84-66-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.6E+04                                          | 2.8E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.0E+01                                       | 2.0E+03                                           |
| Diethylene glycol                                     | 111-46-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+05                                          | 7.1E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| Diethylene glycol monobutyl ether                     | 112-34-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-04                                         | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Diethylhexyl adipate                                  | 103-23-1   | —                                               | 5.1E+03                                          | 1.7E+04                                           | —                                                                  | —                                                                 | —                                               | 4.9E+04                                          | 2.1E+05                                           | —                                                                  | —                                                                 | 7.6E-01                                       | 7.6E+01                                           | 1.5E+01                                       | 1.5E+03                                           |
| Diethylstilbestrol                                    | 56-53-1    | —                                               | 1.3E-03                                          | 4.4E-03                                           | —                                                                  | 1.2E-04                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E-07                                       | 1.9E-05                                           | —                                             | —                                                 |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)           | 107-39-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Diisopropylbenzene, p-                                | 100-18-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | 3.6E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-01                                       | 2.4E+01                                           |
| Diisopropyl ether (2,2'-oxybis-propane)               | 108-20-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.3E-01                                         | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Dimethenamid                                          | 87674-68-8 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.2E+03                                          | 5.3E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                                           | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                                |                                                                |                                                            |                                                                |
|---------------------------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|
|                                                               |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                               |                                                                | Noncarcinogenic                                            |                                                                |
|                                                               |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>2</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>3</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AvgVeg <sup>4</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>5</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>2</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>3</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AvgVeg <sup>4</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>5</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>6</sup> RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sup>6</sup> RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sup>6</sup> RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sup>6</sup> RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Dimethoate                                                    | 60-51-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+01                                          | 7.1E+01                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-03                                                    | 4.9E-01                                                        |
| Dimethoxybenzidine, 3,3'-                                     | 119-90-4   | —                                               | 4.3E+02                                          | 1.5E+03                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.5E-02                                                    | 6.5E+00                                                        | —                                                          | —                                                              |
| Dimethyl-2-nitrobenzene, 1,3-                                 | 81-20-9    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.4E-03                                         | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Dimethyl-3-nitrobenzene, 1,2-                                 | 83-41-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.4E-03                                         | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Dimethyl-4-nitrobenzene, 1-2-                                 | 99-51-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.4E-03                                         | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Dimethyl-5-nitrobenzene, 1,3-                                 | 99-12-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.4E-03                                         | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Dimethylphenethylamine, alpha, alpha-                         | 122-09-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Dimethyl phenol, 2,4-                                         | 105-67-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-01                                                    | 4.9E+01                                                        |
| Dimethylaminoazobenzene, p-                                   | 60-11-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E-01                                          | 3.6E+00                                           | —                                                                  | 1.6E-01                                                           | —                                                          | —                                                              | 2.4E-04                                                    | 2.4E-02                                                        |
| Dimethylbenz-a-anthracene, 7,12-                              | 57-97-6    | 1.0E-06                                         | 2.4E-02                                          | 6.4E-02                                           | —                                                                  | 2.3E-03                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.7E-06                                                    | 3.7E-04                                                        | —                                                          | —                                                              |
| Dimethylbenzidine, 3,3'-                                      | 119-93-7   | —                                               | 5.5E-01                                          | 1.9E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.3E-05                                                    | 8.3E-03                                                        | —                                                          | —                                                              |
| Dimethylformamide, N,N-                                       | 68-12-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-02                                         | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Dimethylnaphthalene, 1,3-                                     | 575-41-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | 1.1E+04                                           | —                                                                  | 6.3E+02                                                           | —                                                          | —                                                              | 9.8E-01                                                    | 9.8E+01                                                        |
| Dimethylphthalate                                             | 131-11-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.6E+04                                          | 2.8E+05                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.0E+01                                                    | 2.0E+03                                                        |
| Di-n-butyl phthalate                                          | 84-74-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | 1.6E+03                                                           | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)        | 534-52-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+00                                          | 3.6E+01                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-03                                                    | 2.4E-01                                                        |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)                   | 99-65-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+00                                          | 3.6E+01                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-03                                                    | 2.4E-01                                                        |
| Dinitrobenzene, 1,4-                                          | 100-25-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+00                                          | 3.6E+01                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-03                                                    | 2.4E-01                                                        |
| Dinitrophenol, 2,4-                                           | 51-28-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Dinitrophenol, 2,5-                                           | 329-71-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Dinitrotoluene, 2,4-                                          | 121-14-2   | —                                               | 8.9E+00                                          | 3.1E+01                                           | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | 1.3E-03                                                    | 1.3E-01                                                        | 4.9E-02                                                    | 4.9E+00                                                        |
| Dinitrotoluene, 2,6-                                          | 606-20-2   | —                                               | 8.9E+00                                          | 3.1E+01                                           | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | 1.3E-03                                                    | 1.3E-01                                                        | 2.4E-02                                                    | 2.4E+00                                                        |
| Di-n-octyl phthalate                                          | 117-84-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | 3.6E+03                                           | —                                                                  | 1.6E+02                                                           | —                                                          | —                                                              | 2.4E-01                                                    | 2.4E+01                                                        |
| Dinoseb                                                       | 88-85-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-02                                                    | 2.4E+00                                                        |
| Dioxane 1,4-                                                  | 123-91-1   | 4.9E-03                                         | 6.1E+01                                          | —                                                 | —                                                                  | —                                                                 | 1.1E-01                                         | 2.5E+03                                          | —                                                 | —                                                                  | —                                                                 | 9.1E-03                                                    | 9.1E-01                                                        | 7.3E-01                                                    | 7.3E+01                                                        |
| Dioxin (as 2,3,7,8-TCDD toxicity equivalent quotients (TEQs)) | 1746-01-6  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.7E-05                                          | 8.3E-04                                           | —                                                                  | 1.1E-05                                                           | —                                                          | —                                                              | 1.7E-08                                                    | 1.7E-06                                                        |
| Diphenyl ether                                                | 101-84-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.1E+02                                          | 2.2E+03                                           | —                                                                  | 9.7E+01                                                           | —                                                          | —                                                              | 1.5E-01                                                    | 1.5E+01                                                        |
| Diphenylamine                                                 | 122-39-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.0E+03                                          | 8.9E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 6.1E-01                                                    | 6.1E+01                                                        |
| Diphenylhydrazine, 1,2-                                       | 122-66-7   | 1.1E-04                                         | 7.6E+00                                          | 2.6E+01                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.1E-03                                                    | 1.1E-01                                                        | —                                                          | —                                                              |
| Dipropylene glycol                                            | 110-98-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 9.8E+03                                          | 4.3E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.9E+00                                                    | 2.9E+02                                                        |
| Diquat                                                        | 85-00-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.8E+02                                          | 7.8E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 5.4E-02                                                    | 5.4E+00                                                        |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)   | 142-73-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | 3.6E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-01                                                    | 2.4E+01                                                        |
| Disulfoton                                                    | 298-04-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+00                                          | 1.4E+01                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E-04                                                    | 9.8E-02                                                        |
| Diuron                                                        | 330-54-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Dodecylphenol, 4-                                             | 104-43-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | 7.8E+02                                                           | —                                                          | —                                                              | 1.2E+00                                                    | 1.2E+02                                                        |
| Endosulfan                                                    | 115-29-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+02                                          | 2.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.5E-01                                                    | 1.5E+01                                                        |
| Endosulfan I                                                  | 959-98-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | 3.1E+01                                                           | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Endosulfan II                                                 | 33213-65-9 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+02                                          | 2.1E+03                                           | —                                                                  | 9.4E+01                                                           | —                                                          | —                                                              | 1.5E-01                                                    | 1.5E+01                                                        |
| Endosulfan sulfate                                            | 1031-07-8  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+02                                          | 2.1E+03                                           | —                                                                  | 9.4E+01                                                           | —                                                          | —                                                              | 1.5E-01                                                    | 1.5E+01                                                        |
| Endothall                                                     | 145-73-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-01                                                    | 4.9E+01                                                        |
| Endrin                                                        | 72-20-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | 4.7E+00                                                           | —                                                          | —                                                              | 7.3E-03                                                    | 7.3E-01                                                        |
| Endrin aldehyde                                               | 7421-93-4  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | 4.7E+00                                                           | —                                                          | —                                                              | 7.3E-03                                                    | 7.3E-01                                                        |
| Endrin ketone                                                 | 53494-70-5 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | 4.7E+00                                                           | —                                                          | —                                                              | 7.3E-03                                                    | 7.3E-01                                                        |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|-------------------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                       |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                       |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Epichlorohydrin                                       | 106-89-8   | 2.0E-02                                         | 6.1E+02                                          | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 4.9E+02                                          | —                                                 | —                                                                  | —                                                                 | 9.2E-02                                       | 9.2E+00                                           | 1.5E-01                                       | 1.5E+01                                           |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate) | 2104-64-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E-01                                          | 3.6E+00                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-04                                       | 2.4E-02                                           |
| Esfenvalerate                                         | 66230-04-4 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | 3.1E+01                                                           | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Ethalfuralin (sonolan)                                | 55283-68-6 | —                                               | 6.8E+01                                          | 2.3E+02                                           | —                                                                  | 6.6E+00                                                           | —                                               | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | 6.3E+02                                                           | 1.0E-02                                       | 1.0E+00                                           | 9.8E-01                                       | 9.8E+01                                           |
| Ethanol                                               | 64-17-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.0E+06                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 8.1E+02                                       | 8.1E+04                                           |
| Ethanol, 2-amino-                                     | 141-43-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.4E-02                                         | 1.4E+02                                          | 6.0E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.2E-02                                       | 4.2E+00                                           |
| Ethanol, 2-(2-aminoethoxy)-                           | 929-06-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E-02                                       | 1.2E+00                                           |
| Ethanol, 2-(2-ethoxyethoxy)-                          | 111-90-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+05                                          | 7.1E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| Ethanol, 2-(methylamino)-                             | 109-83-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.8E-02                                         | 1.3E+03                                          | 5.7E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.9E-01                                       | 3.9E+01                                           |
| Ethion                                                | 563-12-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | 7.8E+00                                                           | —                                             | —                                                 | 1.2E-02                                       | 1.2E+00                                           |
| Ethoprop                                              | 13194-48-4 | —                                               | 2.2E+02                                          | 7.4E+02                                           | —                                                                  | —                                                                 | —                                               | 8.2E+00                                          | 3.6E+01                                           | —                                                                  | —                                                                 | 3.2E-02                                       | 3.2E+00                                           | 2.4E-03                                       | 2.4E-01                                           |
| Ethoxy ethanol, 2-                                    | 110-80-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 7.4E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Ethyl acetate                                         | 141-78-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.4E-01                                         | 7.4E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.2E+01                                       | 2.2E+03                                           |
| Ethyl acrylate                                        | 140-88-5   | —                                               | 1.3E+02                                          | —                                                 | —                                                                  | —                                                                 | 8.3E-03                                         | 4.1E+02                                          | —                                                 | —                                                                  | —                                                                 | 1.9E-02                                       | 1.9E+00                                           | 1.2E-01                                       | 1.2E+01                                           |
| Ethyl benzene                                         | 100-41-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.0E+00                                         | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Ethyl dipropylthiocarbamate, S-                       | 759-94-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.0E+03                                          | 8.9E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 6.1E-01                                       | 6.1E+01                                           |
| Ethyl ether                                           | 60-29-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Ethyl methacrylate                                    | 97-63-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-01                                         | 7.4E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Ethyl methanesulfonate                                | 62-50-0    | 8.7E-04                                         | 6.1E+01                                          | 2.1E+02                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.2E-03                                       | 9.2E-01                                           | —                                             | —                                                 |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)      | 637-92-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-01                                         | 8.2E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-02                                       | 2.4E+00                                           |
| Ethyl-1-hexanol, 2-                                   | 104-76-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.2E+04                                          | 5.3E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Ethyl-2-hexenal, 2-                                   | 645-62-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.2E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Ethyl-2-methyl benzene, 1-                            | 611-14-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.2E-01                                         | 4.1E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Ethyl-4-methyl benzene, 1-                            | 622-96-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.2E-01                                         | 4.1E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Ethylene*                                             | 74-85-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Ethylene dibromide (dibromoethane, 1,2- )             | 106-93-4   | 5.5E-04                                         | 3.0E+00                                          | —                                                 | —                                                                  | —                                                                 | 7.0E-02                                         | 7.4E+02                                          | —                                                 | —                                                                  | —                                                                 | 4.6E-04                                       | 4.6E-02                                           | 2.2E-01                                       | 2.2E+01                                           |
| Ethylene glycol                                       | 107-21-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+05                                          | 7.1E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| Ethylene oxide                                        | 75-21-8    | 1.7E-02                                         | 6.0E+00                                          | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.9E-04                                       | 8.9E-02                                           | —                                             | —                                                 |
| Ethylene thiourea                                     | 96-45-7    | —                                               | 5.5E+01                                          | 1.9E+02                                           | —                                                                  | —                                                                 | —                                               | 6.6E+00                                          | 2.8E+01                                           | —                                                                  | —                                                                 | 8.3E-03                                       | 8.3E-01                                           | 2.0E-03                                       | 2.0E-01                                           |
| Ethylenediamine                                       | 107-15-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 7.4E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Ethylenimine                                          | 151-56-4   | 1.3E-06                                         | 9.3E-02                                          | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.4E-05                                       | 1.4E-03                                           | —                                             | —                                                 |
| Ethylhexyl acrylate, 2-                               | 103-11-7   | —                                               | 1.3E+02                                          | 4.3E+02                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E-02                                       | 1.9E+00                                           | —                                             | —                                                 |
| Famphur                                               | 52-85-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+00                                          | 1.1E+01                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-04                                       | 7.3E-02                                           |
| Fensulfothion                                         | 115-90-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-02                                       | 2.4E+00                                           |
| Fenthion                                              | 55-38-9    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.7E+00                                          | 2.5E+01                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.7E-03                                       | 1.7E-01                                           |
| Fenuron                                               | 101-42-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.7E+03                                          | 2.5E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.7E+00                                       | 1.7E+02                                           |
| Fluoranthene                                          | 206-44-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | 1.1E+04                                           | —                                                                  | 6.3E+02                                                           | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Fluorene                                              | 86-73-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | 1.1E+04                                           | —                                                                  | 6.3E+02                                                           | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Fluorine (soluble fluoride)                           | 7782-41-4  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.8E-02                                         | 4.9E+03                                          | 2.1E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Fluorochloridone                                      | 61213-25-0 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.1E+02                                          | 2.7E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.8E-01                                       | 1.8E+01                                           |
| Fonofos                                               | 944-22-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Formaldehyde                                          | 50-00-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.1E-02                                         | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Formic acid                                           | 64-18-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-03                                         | 7.4E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.2E+01                                       | 2.2E+03                                           |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|---------------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                   |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                   |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Furan                                             | 110-00-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-02                                       | 2.4E+00                                           |
| Furfural                                          | 98-01-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Glycidylaldehyde                                  | 765-34-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 3.3E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-03                                       | 9.8E-01                                           |
| Glyphosate                                        | 1071-83-6  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+04                                          | 3.6E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+01                                       | 2.4E+03                                           |
| Heptachlor                                        | 76-44-8    | 1.9E-05                                         | 1.3E+00                                          | 4.6E+00                                           | —                                                                  | 1.3E-01                                                           | —                                               | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | 7.8E+00                                                           | 2.0E-04                                       | 2.0E-02                                           | 1.2E-02                                       | 1.2E+00                                           |
| Heptachlor epoxide                                | 1024-57-3  | 9.4E-06                                         | 6.7E-01                                          | 2.3E+00                                           | —                                                                  | 6.4E-02                                                           | —                                               | 1.1E+00                                          | 4.6E+00                                           | —                                                                  | 2.0E-01                                                           | 1.0E-04                                       | 1.0E-02                                           | 3.2E-04                                       | 3.2E-02                                           |
| Heptane, n-                                       | 142-82-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.4E+00                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Heptanoic acid, n-                                | 111-14-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 4.1E+04                                          | 1.8E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+01                                       | 1.2E+03                                           |
| Hexachlorobenzene                                 | 118-74-1   | 5.3E-05                                         | 3.8E+00                                          | 1.3E+01                                           | —                                                                  | 3.7E-01                                                           | —                                               | 6.6E+01                                          | 2.8E+02                                           | —                                                                  | 1.3E+01                                                           | 5.7E-04                                       | 5.7E-02                                           | 2.0E-02                                       | 2.0E+00                                           |
| Hexachlorobutadiene                               | 87-68-3    | 1.1E-03                                         | 7.8E+01                                          | 2.7E+02                                           | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | 1.2E-02                                       | 1.2E+00                                           | 2.4E-02                                       | 2.4E+00                                           |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | 1.4E-05                                         | 9.6E-01                                          | 8.2E+00                                           | —                                                                  | 9.3E-02                                                           | —                                               | 6.6E+02                                          | 7.1E+03                                           | —                                                                  | 1.3E+02                                                           | 1.4E-04                                       | 1.4E-02                                           | 2.0E-01                                       | 2.0E+01                                           |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | 4.6E-05                                         | 3.4E+00                                          | 2.9E+01                                           | —                                                                  | 3.2E-01                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.1E-04                                       | 5.1E-02                                           | —                                             | —                                                 |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | 4.8E-05                                         | 3.4E+00                                          | 2.9E+01                                           | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 2.7E+02                                           | —                                                                  | —                                                                 | 5.1E-04                                       | 5.1E-02                                           | 7.3E-03                                       | 7.3E-01                                           |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | —                                               | 4.7E+00                                          | 4.0E+01                                           | —                                                                  | 4.5E-01                                                           | —                                               | 2.5E+01                                          | 2.7E+02                                           | —                                                                  | 4.7E+00                                                           | 7.0E-04                                       | 7.0E-02                                           | 7.3E-03                                       | 7.3E-01                                           |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | 4.8E-05                                         | 3.4E+00                                          | 2.9E+01                                           | —                                                                  | 3.2E-01                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.1E-04                                       | 5.1E-02                                           | —                                             | —                                                 |
| Hexachlorocyclopentadiene                         | 77-47-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-04                                         | 4.9E+02                                          | 2.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Hexachloroethane                                  | 67-72-1    | —                                               | 1.5E+02                                          | 5.2E+02                                           | —                                                                  | —                                                                 | 3.1E-02                                         | 5.7E+01                                          | 2.5E+02                                           | —                                                                  | —                                                                 | 2.3E-02                                       | 2.3E+00                                           | 1.7E-02                                       | 1.7E+00                                           |
| Hexachlorophene                                   | 70-30-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | 4.7E+00                                                           | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Hexachloropropylene                               | 1888-71-7  | —                                               | 1.5E+02                                          | 5.2E+02                                           | —                                                                  | —                                                                 | 3.1E-02                                         | 5.7E+01                                          | 2.5E+02                                           | —                                                                  | —                                                                 | 2.3E-02                                       | 2.3E+00                                           | 1.7E-02                                       | 1.7E+00                                           |
| Hexanal, 2-ethyl-                                 | 123-05-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.2E+04                                          | 5.3E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Hexane, n-                                        | 110-54-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.0E-01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Hexanediamine, 1,6-                               | 124-09-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E-01                                       | 1.2E+01                                           |
| Hexanedinitrile                                   | 111-69-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.3E-03                                         | 1.1E+02                                          | 5.0E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.4E-02                                       | 3.4E+00                                           |
| Hexanediol, 1,6-                                  | 629-11-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.1E+05                                          | 1.0E+06                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+02                                       | 1.2E+04                                           |
| Hexanoic acid                                     | 142-62-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 5.2E+03                                          | 2.3E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.6E+00                                       | 1.6E+02                                           |
| Hexanone, 2-                                      | 591-78-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-02                                         | 4.1E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Hexazinone                                        | 51235-04-2 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.7E+03                                          | 1.2E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 8.1E-01                                       | 8.1E+01                                           |
| Hexene, 1-                                        | 592-41-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.1E-01                                         | 2.7E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 8.1E+00                                       | 8.1E+02                                           |
| Hexene, cis-2-                                    | 7688-21-3  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.1E-01                                         | 2.7E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 8.1E+00                                       | 8.1E+02                                           |
| Hexylene glycol (2-methyl-2,4-pentanediol)        | 107-41-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+04                                          | 1.1E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Hydrazine                                         | 302-01-2   | 5.0E-06                                         | 2.0E+00                                          | —                                                 | —                                                                  | —                                                                 | 3.1E-05                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 3.0E-04                                       | 3.0E-02                                           | —                                             | —                                                 |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)    | 1191-25-9  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 5.2E+03                                          | 2.3E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.6E+00                                       | 1.6E+02                                           |
| Hydrogen chloride (hydrochloric acid)*            | 7647-01-0  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Hydroquinone                                      | 123-31-9   | —                                               | 1.0E+02                                          | 3.5E+02                                           | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | —                                                                 | 1.5E-02                                       | 1.5E+00                                           | 9.8E-01                                       | 9.8E+01                                           |
| Indene                                            | 95-13-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-03                                         | 1.6E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-01                                       | 4.9E+01                                           |
| Indeno-1,2,3-cd-pyrene                            | 193-39-5   | 4.1E-04                                         | 6.1E+01                                          | 1.6E+02                                           | —                                                                  | 5.8E+00                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.1E-03                                       | 9.1E-01                                           | —                                             | —                                                 |
| Iron*                                             | 7439-89-6  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Isoamyl alcohol                                   | 123-51-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E-01                                       | 1.2E+01                                           |
| Isobutyl alcohol                                  | 78-83-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Isobutylene (2-methyl-1-propene)                  | 115-11-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.1E+02                                         | 3.0E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 9.0E-02                                       | 9.0E+00                                           |
| Isobutyric acid (2-methylpropanoic acid)          | 79-31-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+04                                          | 1.8E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+01                                       | 1.2E+03                                           |
| Isodecanol                                        | 25339-17-7 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.3E+02                                          | 5.7E+02                                           | —                                                                  | 2.5E+01                                                           | —                                             | —                                                 | 3.9E-02                                       | 3.9E+00                                           |
| Isodrin                                           | 465-73-6   | 5.0E-07                                         | 3.6E-02                                          | 1.2E-01                                           | —                                                                  | —                                                                 | —                                               | 2.5E-01                                          | 1.1E+00                                           | —                                                                  | —                                                                 | 5.4E-06                                       | 5.4E-04                                           | 7.3E-05                                       | 7.3E-03                                           |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|----------------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                    |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                    |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Isopentane                                         | 78-78-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.5E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Isophorone                                         | 78-59-1    | —                                               | 6.4E+03                                          | 2.2E+04                                           | —                                                                  | —                                                                 | —                                               | 1.6E+04                                          | 7.1E+04                                           | —                                                                  | —                                                                 | 9.6E-01                                       | 9.6E+01                                           | 4.9E+00                                       | 4.9E+02                                           |
| Isopropyl acetate                                  | 108-21-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.7E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.7E+00                                       | 1.7E+02                                           |
| Isopropyl alcohol                                  | 67-63-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 1.6E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| Isosafrole                                         | 120-58-1   | 3.9E-04                                         | 2.8E+01                                          | 9.4E+01                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.1E-03                                       | 4.1E-01                                           | —                                             | —                                                 |
| Kelthane (dicofol)                                 | 115-32-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+02                                          | 2.1E+03                                           | —                                                                  | 9.4E+01                                                           | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Kepone (chlordecone)                               | 143-50-0   | 5.3E-06                                         | 6.1E-01                                          | 2.1E+00                                           | —                                                                  | 5.8E-02                                                           | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | 4.7E+00                                                           | 9.1E-05                                       | 9.1E-03                                           | 7.3E-03                                       | 7.3E-01                                           |
| Lead (inorganic)                                   | 7439-92-1  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Leptophos                                          | 21609-90-5 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E-06                                         | 4.1E-01                                          | 1.8E+00                                           | —                                                                  | 7.8E-02                                                           | —                                             | —                                                 | 1.2E-04                                       | 1.2E-02                                           |
| Limonene, d-*                                      | 5989-27-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Lithium                                            | 7439-93-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.7E+02                                          | 2.5E+04                                           | 4.6E+01                                                            | 1.1E+02                                                           | —                                             | —                                                 | 1.7E-01                                       | 1.7E+01                                           |
| Magnesium*                                         | 7439-95-4  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Malathion                                          | 121-75-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-04                                         | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-01                                       | 4.9E+01                                           |
| Maleic anhydride                                   | 108-31-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Maleic hydrazide                                   | 123-33-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+04                                          | 1.8E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+01                                       | 1.2E+03                                           |
| Malononitrile                                      | 109-77-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+00                                          | 3.6E+01                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-03                                       | 2.4E-01                                           |
| Mancozeb                                           | 8018-01-7  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Manganese                                          | 7439-96-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.8E-04                                         | 1.1E+04                                          | 3.0E+04                                           | 9.1E+02                                                            | 2.2E+03                                                           | —                                             | —                                                 | 1.1E+00                                       | 1.1E+02                                           |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E-02                                       | 1.2E+00                                           |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-02                                       | 2.4E+00                                           |
| Mercury (pH = 4.9)                                 | 7439-97-6  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-04                                         | 2.5E+01                                          | 7.5E+01                                           | 2.0E+00                                                            | —                                                                 | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Mercury (pH=6.8)                                   | 7439-97-6  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-04                                         | 2.5E+01                                          | 7.5E+01                                           | 2.0E+00                                                            | —                                                                 | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Merphos                                            | 150-50-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+00                                          | 1.1E+01                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-04                                       | 7.3E-02                                           |
| Methacrylic acid (2-methyl-2-propenoic acid)       | 79-41-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-01                                       | 2.4E+01                                           |
| Methacrylonitrile                                  | 126-98-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-02                                         | 4.1E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Methanol                                           | 67-56-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.5E+00                                         | 1.6E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| Methapyrilene                                      | 91-80-5    | —                                               | 1.3E+00                                          | 4.4E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E-04                                       | 1.9E-02                                           | —                                             | —                                                 |
| Methomyl                                           | 16752-77-5 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.0E+03                                          | 8.9E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 6.1E-01                                       | 6.1E+01                                           |
| Methoxychlor                                       | 72-43-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+03                                           | —                                                                  | 7.8E+01                                                           | —                                             | —                                                 | 1.2E-01                                       | 1.2E+01                                           |
| Methoxyethanol, 2-                                 | 109-86-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-02                                         | 2.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 6.6E-01                                       | 6.6E+01                                           |
| Methyl acetate (acetic acid, methyl ester)         | 79-20-9    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+01                                       | 2.4E+03                                           |
| Methyl acrylate                                    | 96-33-3    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-02                                         | 1.6E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Methyl amyl ketone (2-heptanone)                   | 110-43-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.9E+00                                         | 4.1E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Methyl chrysene, 1-                                | 3351-28-8  | 2.8E-02                                         | 8.3E+02                                          | 2.2E+03                                           | —                                                                  | 8.0E+01                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.3E-01                                       | 1.3E+01                                           | —                                             | —                                                 |
| Methyl chrysene, 2-                                | 3351-32-4  | 2.8E-02                                         | 8.3E+02                                          | 2.2E+03                                           | —                                                                  | 8.0E+01                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.3E-01                                       | 1.3E+01                                           | —                                             | —                                                 |
| Methyl chrysene, 6-                                | 1705-85-7  | 2.8E-03                                         | 8.3E+01                                          | 2.2E+02                                           | —                                                                  | 8.0E+00                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.3E-02                                       | 1.3E+00                                           | —                                             | —                                                 |
| Methyl cyclohexane                                 | 108-87-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E+00                                         | 4.1E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+02                                       | 1.2E+04                                           |
| Methyl ethyl ketone (2-butanone)                   | 78-93-3    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.2E+00                                         | 4.9E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Methyl iodide (iodomethane)                        | 74-88-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.1E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 3.4E-02                                       | 3.4E+00                                           |
| Methyl isobutyl ketone (4-methyl-2-pentanone)      | 108-10-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E+00                                         | 6.6E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.0E+00                                       | 2.0E+02                                           |
| Methyl mercury                                     | 22967-92-6 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+00                                          | 3.6E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-03                                       | 2.4E-01                                           |
| Methyl methacrylate                                | 80-62-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.3E-01                                         | 1.1E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 3.4E+01                                       | 3.4E+03                                           |
| Methyl methanesulfonate                            | 66-27-3    | 8.7E-04                                         | 6.1E+01                                          | 2.1E+02                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.2E-03                                       | 9.2E-01                                           | —                                             | —                                                 |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                      | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                          |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                          |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Methyl parathion                         | 298-00-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.0E+01                                          | 8.9E+01                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 6.1E-03                                       | 6.1E-01                                           |
| Methyl-1-butene, 2-                      | 563-46-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Methyl-1-propanal, 2- (isobutyraldehyde) | 78-84-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Methyl-2-butene, 2-                      | 513-35-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Methyl-2-pentenal, 2-                    | 623-36-9   | —                                               | 3.2E+00                                          | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.8E-04                                       | 4.8E-02                                           | —                                             | —                                                 |
| Methylcholanthrene, 3-                   | 56-49-5    | 1.2E-05                                         | 2.8E-01                                          | 7.3E-01                                           | —                                                                  | 2.7E-02                                                           | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.1E-05                                       | 4.1E-03                                           | —                                             | —                                                 |
| Methylene bromide (dibromomethane)       | 74-95-3    | —                                               | 8.1E+02                                          | —                                                 | —                                                                  | —                                                                 | 4.2E-03                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | 1.2E-01                                       | 1.2E+01                                           | 1.5E+00                                       | 1.5E+02                                           |
| Methylene chloride (dichloromethane)     | 75-09-2    | 8.7E-01                                         | 6.2E+04                                          | —                                                 | —                                                                  | —                                                                 | 1.4E+00                                         | 1.7E+03                                          | —                                                 | —                                                                  | —                                                                 | 9.3E+00                                       | 9.3E+02                                           | 5.1E-01                                       | 5.1E+01                                           |
| Methylene-bis (2-chloroaniline) 4,4'-    | 101-14-4   | 6.6E-04                                         | 6.1E+01                                          | 2.1E+02                                           | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | 9.1E-03                                       | 9.1E-01                                           | 4.9E-02                                       | 4.9E+00                                           |
| Methylmercury hydroxide                  | 1184-57-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+00                                          | 3.6E+01                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-03                                       | 2.4E-01                                           |
| Methylnaphthalene, 1-                    | 90-12-0    | —                                               | 2.1E+02                                          | 5.5E+02                                           | —                                                                  | —                                                                 | —                                               | 5.7E+03                                          | 1.9E+04                                           | —                                                                  | —                                                                 | 3.1E-02                                       | 3.1E+00                                           | 1.7E+00                                       | 1.7E+02                                           |
| Methylnaphthalene, 2-                    | 91-57-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-02                                       | 9.8E+00                                           |
| Methylpyrrolidone, N-                    | 872-50-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-01                                       | 4.9E+01                                           |
| Methylstyrene, alpha-                    | 98-83-9    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.6E-02                                         | 6.8E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.0E-01                                       | 2.0E+01                                           |
| Methyltetrahydrofuran, 2-                | 96-47-9    | 1.3E-02                                         | 8.0E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | 1.2E-01                                       | 1.2E+01                                           | 4.9E+00                                       | 4.9E+02                                           |
| Methyltetrahydropyran, 2-                | 10141-72-7 | 1.3E-02                                         | 8.0E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | 1.2E-01                                       | 1.2E+01                                           | 4.9E+00                                       | 4.9E+02                                           |
| Metolachlor                              | 51218-45-2 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.2E+04                                          | 5.3E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Metribuzin                               | 21087-64-9 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.0E+03                                          | 8.9E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 6.1E-01                                       | 6.1E+01                                           |
| Mirex                                    | 2385-85-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+01                                          | 7.1E+01                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-03                                       | 4.9E-01                                           |
| Molinate                                 | 2212-67-1  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Molybdenum                               | 7439-98-7  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 6.8E+03                                           | 3.3E+01                                                            | 7.8E+01                                                           | —                                             | —                                                 | 1.2E-01                                       | 1.2E+01                                           |
| Monocrotophos                            | 2157-98-4  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+01                                          | 2.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E-02                                       | 1.5E+00                                           |
| Morpholine                               | 110-91-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.0E+06                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+04                                       | 1.2E+06                                           |
| Morpholine, N-butyl-                     | 1005-67-0  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.9E+02                                          | 8.2E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 5.6E-02                                       | 5.6E+00                                           |
| MTBE (methyl tert-butyl ether)           | 1634-04-4  | 9.4E-02                                         | 3.4E+03                                          | —                                                 | —                                                                  | —                                                                 | 3.1E+00                                         | 8.2E+02                                          | —                                                 | —                                                                  | —                                                                 | 5.1E-01                                       | 5.1E+01                                           | 2.4E-01                                       | 2.4E+01                                           |
| Naled                                    | 300-76-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Naphthalene                              | 91-20-3    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-03                                         | 1.6E+03                                          | 5.5E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-01                                       | 4.9E+01                                           |
| Naphthoquinone, 1,4-                     | 130-15-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.7E+02                                          | 2.5E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.7E-01                                       | 1.7E+01                                           |
| Naphthylamine, 1-                        | 134-32-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-01                                       | 4.9E+01                                           |
| Naphthylamine, 2-                        | 91-59-8    | —                                               | 3.4E+00                                          | 1.2E+01                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.1E-04                                       | 5.1E-02                                           | —                                             | —                                                 |
| Napropamide                              | 15299-99-7 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Neopentyl glycol                         | 126-30-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+04                                          | 1.1E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Nickel and compounds                     | 7440-02-0  | 1.4E-04                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 2.4E-04                                         | 1.6E+03                                          | 2.8E+03                                           | 1.3E+02                                                            | 3.1E+02                                                           | —                                             | —                                                 | 4.9E-01                                       | 4.9E+01                                           |
| Nitrate-N                                | 14797-55-8 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.3E+05                                          | 1.0E+06                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.9E+01                                       | 3.9E+03                                           |
| Nitrite-N                                | 14797-65-0 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Nitroaniline, 2-                         | 88-74-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-04                                         | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Nitroaniline, 3-                         | 99-09-2    | —                                               | 1.6E+02                                          | 5.5E+02                                           | —                                                                  | —                                                                 | 2.1E-04                                         | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | —                                                                 | 2.4E-02                                       | 2.4E+00                                           | 7.3E-03                                       | 7.3E-01                                           |
| Nitroaniline, 4-                         | 100-01-6   | —                                               | 3.0E+02                                          | 1.0E+03                                           | —                                                                  | —                                                                 | 6.3E-03                                         | 3.3E+02                                          | 1.4E+03                                           | —                                                                  | —                                                                 | 4.6E-02                                       | 4.6E+00                                           | 9.8E-02                                       | 9.8E+00                                           |
| Nitrobenzene                             | 98-95-3    | 6.1E-04                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Nitroglycerin                            | 55-63-0    | —                                               | 3.6E+02                                          | 1.2E+03                                           | —                                                                  | —                                                                 | —                                               | 8.2E+00                                          | 3.6E+01                                           | —                                                                  | —                                                                 | 5.4E-02                                       | 5.4E+00                                           | 2.4E-03                                       | 2.4E-01                                           |
| Nitrophenol, 2-                          | 88-75-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Nitrophenol, 3-                          | 554-84-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Nitrophenol, 4-                          | 100-02-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                 | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|-------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                     |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                     |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Nitropropane, 2-                    | 79-46-9    | 4.2E-05                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-02                                         | 1.1E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 3.4E-03                                       | 3.4E-01                                           |
| Nitroquinoline-N-oxide, 4-          | 56-57-5    | 9.0E-06                                         | 6.5E-01                                          | 2.2E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.7E-05                                       | 9.7E-03                                           | —                                             | —                                                 |
| Nitrosodiethanolamine               | 1116-54-7  | —                                               | 2.2E+00                                          | 7.4E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.3E-04                                       | 3.3E-02                                           | —                                             | —                                                 |
| Nitrosodiethylamine, n-             | 55-18-5    | 5.7E-07                                         | 4.0E-02                                          | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.1E-06                                       | 6.1E-04                                           | —                                             | —                                                 |
| Nitrosodimethylamine, n-            | 62-75-9    | 1.7E-06                                         | 1.2E-01                                          | —                                                 | —                                                                  | —                                                                 | 4.2E-05                                         | 6.6E-01                                          | —                                                 | —                                                                  | —                                                                 | 1.8E-05                                       | 1.8E-03                                           | 2.0E-04                                       | 2.0E-02                                           |
| Nitrosodi-n-butylamine, n-          | 924-16-3   | 1.5E-05                                         | 1.1E+00                                          | 3.8E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.7E-04                                       | 1.7E-02                                           | —                                             | —                                                 |
| Nitrosodi-n-propylamine, n-         | 621-64-7   | —                                               | 8.7E-01                                          | 7.4E-01                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.3E-04                                       | 1.3E-02                                           | —                                             | —                                                 |
| Nitrosodiphenylamine                | 86-30-6    | —                                               | 1.2E+03                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E-01                                       | 1.9E+01                                           | —                                             | —                                                 |
| Nitroso-methyl-ethyl-amine, n-      | 10595-95-6 | —                                               | 2.8E-01                                          | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.1E-05                                       | 4.1E-03                                           | —                                             | —                                                 |
| Nitrosomorpholine, N-               | 59-89-2    | 1.3E-05                                         | 9.1E-01                                          | 3.1E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.4E-04                                       | 1.4E-02                                           | —                                             | —                                                 |
| Nitroso-n-ethylurea, n-             | 759-73-9   | —                                               | 4.3E-02                                          | 1.5E-01                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.5E-06                                       | 6.5E-04                                           | —                                             | —                                                 |
| Nitrosopiperidine, N-               | 100-75-4   | 9.0E-06                                         | 6.5E-01                                          | 2.2E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 9.7E-05                                       | 9.7E-03                                           | —                                             | —                                                 |
| Nitrosopyrrolidine, n-              | 930-55-2   | 4.0E-05                                         | 2.9E+00                                          | 9.9E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.3E-04                                       | 4.3E-02                                           | —                                             | —                                                 |
| Nitrotoluene, m-                    | 99-08-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | 3.6E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-01                                       | 2.4E+01                                           |
| Nitrotoluene, o-                    | 88-72-2    | —                                               | 2.8E+01                                          | 9.4E+01                                           | —                                                                  | —                                                                 | —                                               | 7.4E+01                                          | 3.2E+02                                           | —                                                                  | —                                                                 | 4.1E-03                                       | 4.1E-01                                           | 2.2E-02                                       | 2.2E+00                                           |
| Nitrotoluene, p-                    | 99-99-0    | —                                               | 3.8E+02                                          | 1.3E+03                                           | —                                                                  | —                                                                 | —                                               | 3.3E+02                                          | 1.4E+03                                           | —                                                                  | —                                                                 | 5.7E-02                                       | 5.7E+00                                           | 9.8E-02                                       | 9.8E+00                                           |
| Nonachlor, cis-                     | 5103-73-1  | 2.4E-04                                         | 1.7E+01                                          | 5.9E+01                                           | —                                                                  | 1.7E+00                                                           | 7.3E-04                                         | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | 7.8E+00                                                           | 2.6E-03                                       | 2.6E-01                                           | 1.2E-02                                       | 1.2E+00                                           |
| Nonachlor, trans-                   | 39765-80-5 | 2.4E-04                                         | 1.7E+01                                          | 5.9E+01                                           | —                                                                  | 1.7E+00                                                           | 7.3E-04                                         | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | 7.8E+00                                                           | 2.6E-03                                       | 2.6E-01                                           | 1.2E-02                                       | 1.2E+00                                           |
| Nonanal                             | 124-19-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+04                                          | 7.1E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Nonene, 1-n                         | 124-11-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Nonylphenol, 4-n-                   | 104-40-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | 1.6E+03                                                           | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Nonylphenol ethoxylate              | 9016-45-9  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | 1.6E+03                                                           | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Octamethylpyrophosphoramide         | 152-16-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Octanone                            | 106-68-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Oxamyl                              | 23135-22-0 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.0E+03                                          | 8.9E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 6.1E-01                                       | 6.1E+01                                           |
| Oxychlordan                         | 27304-13-8 | 2.4E-04                                         | 1.7E+01                                          | 5.9E+01                                           | —                                                                  | 1.7E+00                                                           | 7.3E-04                                         | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | 7.8E+00                                                           | 2.6E-03                                       | 2.6E-01                                           | 1.2E-02                                       | 1.2E+00                                           |
| Paraquat                            | 1910-42-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.7E+02                                          | 1.6E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.1E-01                                       | 1.1E+01                                           |
| Parathion (ethyl parathion)         | 56-38-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+02                                          | 2.1E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Pebulate                            | 1114-71-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Pendimethalin                       | 40487-42-1 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | 6.3E+02                                                           | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Pentachlorobenzene                  | 608-93-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.6E+01                                          | 2.8E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.0E-02                                       | 2.0E+00                                           |
| Pentachloroethane                   | 76-01-7    | 3.3E-03                                         | 6.7E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | —                                                 | —                                                                  | —                                                                 | 1.0E-02                                       | 1.0E+00                                           | 7.3E-01                                       | 7.3E+01                                           |
| Pentachloronitrobenzene             | 82-68-8    | —                                               | 2.3E+01                                          | 8.0E+01                                           | —                                                                  | 2.2E+00                                                           | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | 4.7E+01                                                           | 3.5E-03                                       | 3.5E-01                                           | 7.3E-02                                       | 7.3E+00                                           |
| Pentachlorophenol                   | 87-86-5    | —                                               | 1.5E+01                                          | 2.1E+01                                           | —                                                                  | 1.5E+00                                                           | —                                               | 4.1E+02                                          | 7.1E+02                                           | —                                                                  | 7.8E+01                                                           | 2.3E-03                                       | 2.3E-01                                           | 1.2E-01                                       | 1.2E+01                                           |
| Pentadiene, 1,3-cis-                | 1574-41-0  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Pentadiene, 1,3-trans-              | 2004-70-8  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Pentaerythritol tetranitrate (PETN) | 78-11-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 7.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E-02                                       | 4.9E+00                                           |
| Pentane                             | 109-66-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.5E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Pentane, 2-methyl-                  | 107-83-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Pentane, 3-methyl-                  | 96-14-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Pentanediol, 1,5-                   | 111-29-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.1E+05                                          | 1.0E+06                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+02                                       | 1.2E+04                                           |
| Pentanol, 1-                        | 71-41-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.7E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 8.1E-01                                       | 8.1E+01                                           |
| Pentanol, 4-methyl-2-               | 108-11-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.1E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 6.4E-01                                       | 6.4E+01                                           |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                              | CAS        | Soil                              |                                    |                                     |                                                      |                                                     | Groundwater                       |                                    |                                     |                                                      |                                                     |                                              |                                                  |                                              |                                                  |
|----------------------------------------------------------------------------------|------------|-----------------------------------|------------------------------------|-------------------------------------|------------------------------------------------------|-----------------------------------------------------|-----------------------------------|------------------------------------|-------------------------------------|------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------------|----------------------------------------------|--------------------------------------------------|
|                                                                                  |            | Carcinogenic                      |                                    |                                     |                                                      |                                                     | Noncarcinogenic                   |                                    |                                     |                                                      |                                                     | Carcinogenic                                 |                                                  | Noncarcinogenic                              |                                                  |
|                                                                                  |            | AirRBEL <sub>Inh</sub><br>(mg/m3) | SoilRBEL <sub>Ing</sub><br>(mg/kg) | SoilRBEL <sub>Derm</sub><br>(mg/kg) | AbgVegRBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVegRBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | AirRBEL <sub>Inh</sub><br>(mg/m3) | SoilRBEL <sub>Ing</sub><br>(mg/kg) | SoilRBEL <sub>Derm</sub><br>(mg/kg) | AbgVegRBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVegRBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GWRBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GWRBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GWRBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GWRBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Pentane, 2-                                                                      | 107-87-9   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 3.3E+03                            | —                                   | —                                                    | —                                                   | —                                            | —                                                | 9.8E-01                                      | 9.8E+01                                          |
| Pentene, 2-                                                                      | 109-68-2   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 1.9E+01                           | 4.9E+03                            | —                                   | —                                                    | —                                                   | —                                            | —                                                | 1.5E+00                                      | 1.5E+02                                          |
| Pentyne, 1-                                                                      | 627-19-0   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 1.9E+01                           | 4.9E+03                            | —                                   | —                                                    | —                                                   | —                                            | —                                                | 1.5E+00                                      | 1.5E+02                                          |
| Perchlorate                                                                      | 14797-73-0 | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 5.7E+01                            | 5.0E+02                             | —                                                    | —                                                   | —                                            | —                                                | 1.7E-02                                      | 1.7E+00                                          |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | —                                 | —                                  | —                                   | —                                                    | —                                                   | 8.4E-05                           | 1.9E+00                            | 8.2E+00                             | —                                                    | —                                                   | —                                            | —                                                | 5.6E-04                                      | 5.6E-02                                          |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDa]               | 2058-94-8  | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 9.8E-01                            | 4.3E+00                             | —                                                    | —                                                   | —                                            | —                                                | 2.9E-04                                      | 2.9E-02                                          |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                    | 2706-90-3  | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 4.1E+01                            | 1.8E+02                             | —                                                    | —                                                   | —                                            | —                                                | 1.2E-02                                      | 1.2E+00                                          |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                    | 307-24-4   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 4.1E+01                            | 1.8E+02                             | —                                                    | —                                                   | —                                            | —                                                | 1.2E-02                                      | 1.2E+00                                          |
| Perfluorododecanoic acid (Dodecanoic acid, tricosafuoro-) [PFDoA]                | 307-55-1   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 4.4E-05                           | 9.8E-01                            | 4.3E+00                             | —                                                    | —                                                   | —                                            | —                                                | 2.9E-04                                      | 2.9E-02                                          |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                  | 335-67-1   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 4.3E-06                           | 9.8E-01                            | 4.3E+00                             | —                                                    | —                                                   | —                                            | —                                                | 2.9E-04                                      | 2.9E-02                                          |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                   | 335-76-2   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 5.5E-05                           | 1.2E+00                            | 5.3E+00                             | —                                                    | —                                                   | —                                            | —                                                | 3.7E-04                                      | 3.7E-02                                          |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafuoro-) [PFDS]    | 335-77-3   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 9.8E-01                            | 4.3E+00                             | —                                                    | —                                                   | —                                            | —                                                | 2.9E-04                                      | 2.9E-02                                          |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS]    | 355-46-4   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 1.4E-05                           | 3.1E-01                            | 1.4E+00                             | —                                                    | —                                                   | —                                            | —                                                | 9.3E-05                                      | 9.3E-03                                          |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                       | 375-22-4   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 3.7E-03                           | 8.2E+01                            | 3.6E+02                             | —                                                    | —                                                   | —                                            | —                                                | 2.4E-02                                      | 2.4E+00                                          |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]        | 375-73-5   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 5.1E-03                           | 1.1E+02                            | 5.0E+02                             | —                                                    | —                                                   | —                                            | —                                                | 3.4E-02                                      | 3.4E+00                                          |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]                 | 375-85-9   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 1.9E+00                            | 8.2E+00                             | —                                                    | —                                                   | —                                            | —                                                | 5.6E-04                                      | 5.6E-02                                          |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]                  | 375-95-1   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 2.9E-05                           | 9.8E-01                            | 4.3E+00                             | —                                                    | —                                                   | —                                            | —                                                | 2.9E-04                                      | 2.9E-02                                          |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosafuoro-) [PFTeDA]       | 376-06-7   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 9.8E-01                            | 4.3E+00                             | —                                                    | 1.9E-01                                             | —                                            | —                                                | 2.9E-04                                      | 2.9E-02                                          |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosafuoro-) [PFTrDA]           | 72629-94-8 | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 9.8E-01                            | 4.3E+00                             | —                                                    | 1.9E-01                                             | —                                            | —                                                | 2.9E-04                                      | 2.9E-02                                          |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA]      | 754-91-6   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 4.3E-06                           | 9.8E-01                            | 4.3E+00                             | —                                                    | —                                                   | —                                            | —                                                | 2.9E-04                                      | 2.9E-02                                          |
| Perylene                                                                         | 198-55-0   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 1.6E+03                            | 7.1E+03                             | —                                                    | 3.1E+02                                             | —                                            | —                                                | 4.9E-01                                      | 4.9E+01                                          |
| Phenacetin                                                                       | 62-44-2    | 3.9E-02                           | 2.8E+03                            | 9.4E+03                             | —                                                    | —                                                   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 4.1E-01                                      | 4.1E+01                                          | —                                            | —                                                |
| Phenanthrene                                                                     | 85-01-8    | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 2.5E+03                            | 8.2E+03                             | —                                                    | 4.7E+02                                             | —                                            | —                                                | 7.3E-01                                      | 7.3E+01                                          |
| Phenanthridine                                                                   | 229-87-8   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 2.5E+02                            | 1.1E+03                             | —                                                    | —                                                   | —                                            | —                                                | 7.3E-02                                      | 7.3E+00                                          |
| Phenol                                                                           | 108-95-2   | —                                 | —                                  | —                                   | —                                                    | —                                                   | 1.1E-02                           | 2.5E+04                            | 1.1E+05                             | —                                                    | —                                                   | —                                            | —                                                | 7.3E+00                                      | 7.3E+02                                          |
| Phenol, 4-tert-butyl-                                                            | 98-54-4    | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 9.8E+03                            | 4.3E+04                             | —                                                    | —                                                   | —                                            | —                                                | 2.9E+00                                      | 2.9E+02                                          |
| Phenothiazine                                                                    | 92-84-2    | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 9.0E+01                            | 3.9E+02                             | —                                                    | 1.7E+01                                             | —                                            | —                                                | 2.7E-02                                      | 2.7E+00                                          |
| Phenyl mercuric acetate                                                          | 62-38-4    | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 6.6E+00                            | 2.8E+01                             | —                                                    | —                                                   | —                                            | —                                                | 2.0E-03                                      | 2.0E-01                                          |
| Phenylene diamine, m-                                                            | 108-45-2   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 4.9E+02                            | 2.1E+03                             | —                                                    | —                                                   | —                                            | —                                                | 1.5E-01                                      | 1.5E+01                                          |
| Phenylene diamine, p-                                                            | 106-50-3   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 1.6E+04                            | 6.8E+04                             | —                                                    | —                                                   | —                                            | —                                                | 4.6E+00                                      | 4.6E+02                                          |
| Phorate                                                                          | 298-02-2   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 1.6E+01                            | 7.1E+01                             | —                                                    | —                                                   | —                                            | —                                                | 4.9E-03                                      | 4.9E-01                                          |
| Phosalone                                                                        | 2310-17-0  | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 1.6E+02                            | 7.1E+02                             | —                                                    | —                                                   | —                                            | —                                                | 4.9E-02                                      | 4.9E+00                                          |
| Phosdrin (mevinphos)                                                             | 7786-34-7  | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 2.0E+00                            | 8.9E+00                             | —                                                    | —                                                   | —                                            | —                                                | 6.1E-04                                      | 6.1E-02                                          |
| Phosmet                                                                          | 732-11-6   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | 1.6E+03                            | 7.1E+03                             | —                                                    | —                                                   | —                                            | —                                                | 4.9E-01                                      | 4.9E+01                                          |
| Phosphine                                                                        | 7803-51-2  | —                                 | —                                  | —                                   | —                                                    | —                                                   | 3.1E-04                           | 2.5E+01                            | 2.1E+02                             | —                                                    | —                                                   | —                                            | —                                                | 7.3E-03                                      | 7.3E-01                                          |
| Phosphorotriethioic acid, S,S,S-tributyl ester                                   | 78-48-8    | —                                 | 7.2E+01                            | 2.5E+02                             | —                                                    | 7.0E+00                                             | —                                 | 4.1E+01                            | 1.8E+02                             | —                                                    | 7.8E+00                                             | 1.1E-02                                      | 1.1E+00                                          | 1.2E-02                                      | 1.2E+00                                          |
| Phosphorus, total*                                                               | 7723-14-0  | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                 | —                                  | —                                   | —                                                    | —                                                   | —                                            | —                                                | —                                            | —                                                |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern               | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                                |                                                                |                                                            |                                                                |
|-----------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|
|                                   |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                               |                                                                | Noncarcinogenic                                            |                                                                |
|                                   |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Phosphorus, white                 | 7723-14-0  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+00                                          | 1.4E+01                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-04                                                    | 4.9E-02                                                        |
| Phthalic anhydride                | 85-44-9    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.3E-01                                         | 1.6E+05                                          | 7.1E+05                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E+01                                                    | 4.9E+03                                                        |
| Picloram                          | 1918-02-1  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.7E+03                                          | 2.5E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.7E+00                                                    | 1.7E+02                                                        |
| Picoline, 2- (2-methylpyridine)   | 109-06-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 7.4E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.2E-01                                                    | 2.2E+01                                                        |
| Polybrominated biphenyls (PBBs)   | 67774-32-7 | —                                               | 6.8E-01                                          | 2.3E+00                                           | —                                                                  | 6.6E-02                                                           | —                                               | 5.7E-01                                          | 2.5E+00                                           | —                                                                  | 1.1E-01                                                           | 1.0E-04                                                    | 1.0E-02                                                        | 1.7E-04                                                    | 1.7E-02                                                        |
| Polychlorinated biphenyls (PCBs)  | 1336-36-3  | 4.3E-05                                         | 3.0E+00                                          | 7.4E+00                                           | —                                                                  | 2.9E-01                                                           | —                                               | 1.6E+00                                          | 5.1E+00                                           | —                                                                  | 3.1E-01                                                           | 4.6E-04                                                    | 4.6E-02                                                        | 4.9E-04                                                    | 4.9E-02                                                        |
| Potassium*                        | 7440-09-7  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Primene                           | 68955-53-3 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+02                                          | 2.1E+03                                           | —                                                                  | 9.4E+01                                                           | —                                                          | —                                                              | 1.5E-01                                                    | 1.5E+01                                                        |
| Prometon (pramitol)               | 1610-18-0  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.2E+03                                          | 5.3E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 3.7E-01                                                    | 3.7E+01                                                        |
| Prometryn                         | 7287-19-6  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E-01                                                    | 9.8E+01                                                        |
| Pronamide                         | 23950-58-5 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.1E+03                                          | 2.7E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.8E+00                                                    | 1.8E+02                                                        |
| Propanal (propionaldehyde)        | 123-38-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.3E-03                                         | 6.6E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.0E-01                                                    | 2.0E+01                                                        |
| Propane, 1-bromo-                 | 106-94-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 8.8E-01                                                    | 8.8E+01                                                        |
| Propanil                          | 709-98-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Propanoic acid (propionic acid)   | 79-09-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E+01                                                    | 1.2E+03                                                        |
| Propanol, 1-                      | 71-23-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E+01                                                    | 4.9E+03                                                        |
| Propargite                        | 2312-35-8  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-01                                                    | 4.9E+01                                                        |
| Propargyl alcohol                 | 107-19-7   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Propazine                         | 139-40-2   | —                                               | 1.4E+02                                          | 4.7E+02                                           | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | 2.1E-02                                                    | 2.1E+00                                                        | 4.9E-01                                                    | 4.9E+01                                                        |
| Propham                           | 122-42-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-01                                                    | 4.9E+01                                                        |
| Propionitrile (propane nitrile)   | 107-12-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E-03                                                    | 9.8E-01                                                        |
| Propyl acetate, n-                | 109-60-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 7.4E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.2E+00                                                    | 2.2E+02                                                        |
| Propylbenzene, n-                 | 103-65-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.2E-01                                         | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E-01                                                    | 9.8E+01                                                        |
| Propylene glycol                  | 57-55-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-03                                         | 1.0E+06                                          | 1.0E+06                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E+02                                                    | 4.9E+04                                                        |
| Propylene glycol monomethyl ether | 107-98-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E+00                                         | 5.7E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.7E+01                                                    | 1.7E+03                                                        |
| Propylene oxide                   | 75-56-9    | 6.6E-03                                         | 2.5E+01                                          | —                                                 | —                                                                  | —                                                                 | 3.1E-02                                         | —                                                | —                                                 | —                                                                  | —                                                                 | 3.8E-03                                                    | 3.8E-01                                                        | —                                                          | —                                                              |
| Propylene tetramer                | 6842-15-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E+00                                         | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Prothiofos (Tokuthion)            | 34643-46-4 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+00                                          | 3.6E+01                                           | —                                                                  | 1.6E+00                                                           | —                                                          | —                                                              | 2.4E-03                                                    | 2.4E-01                                                        |
| Pyrene                            | 129-00-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 8.2E+03                                           | —                                                                  | 4.7E+02                                                           | —                                                          | —                                                              | 7.3E-01                                                    | 7.3E+01                                                        |
| Pyridine                          | 110-86-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-02                                                    | 2.4E+00                                                        |
| Quinoline                         | 91-22-5    | —                                               | 2.0E+00                                          | 6.9E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.0E-04                                                    | 3.0E-02                                                        | —                                                          | —                                                              |
| Ronnel                            | 299-84-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+03                                          | 1.8E+04                                           | —                                                                  | 7.8E+02                                                           | —                                                          | —                                                              | 1.2E+00                                                    | 1.2E+02                                                        |
| Safrole                           | 94-59-7    | 3.9E-04                                         | 2.8E+01                                          | 9.4E+01                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.1E-03                                                    | 4.1E-01                                                        | —                                                          | —                                                              |
| Selenium                          | 7782-49-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+04                                           | 3.3E+01                                                            | 7.8E+01                                                           | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Selenourea                        | 630-10-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Silver                            | 7440-22-4  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 7.1E+02                                           | 3.3E+01                                                            | 7.8E+01                                                           | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Simazine                          | 122-34-9   | —                                               | 5.1E+01                                          | 1.7E+02                                           | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+03                                           | —                                                                  | —                                                                 | 7.6E-03                                                    | 7.6E-01                                                        | 1.2E-01                                                    | 1.2E+01                                                        |
| Sodium*                           | 7440-23-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Sodium hypochlorite               | 7681-52-9  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.2E-04                                         | 1.7E+04                                          | 1.5E+05                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 5.1E+00                                                    | 5.1E+02                                                        |
| Sodium polyacrylate               | 9003-04-7  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 4.1E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E+01                                                    | 1.2E+03                                                        |
| Strontium                         | 7440-24-6  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+04                                          | 4.3E+05                                           | 3.9E+03                                                            | 9.4E+03                                                           | —                                                          | —                                                              | 1.5E+01                                                    | 1.5E+03                                                        |
| Strychnine                        | 57-24-9    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E-03                                                    | 7.3E-01                                                        |
| Styrene                           | 100-42-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.9E-01                                         | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E+00                                                    | 4.9E+02                                                        |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                       | CAS         | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|-------------------------------------------|-------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                           |             | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                           |             | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Sulfate*                                  | 14808-79-8  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Sulfide*                                  | 18496-25-8  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Sulfolane                                 | 126-33-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.7E-03                                         | 1.1E+03                                          | 4.6E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.2E-01                                       | 3.2E+01                                           |
| Sulfur*                                   | 7704-34-9   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Sulprofos (Bolstar)                       | 35400-43-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | 4.7E+01                                                           | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Tebuconazole                              | 107534-96-3 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Tebuthiuron                               | 34014-18-1  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.7E+03                                          | 2.5E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.7E+00                                       | 1.7E+02                                           |
| Terbufos                                  | 13071-79-9  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.0E+00                                          | 8.9E+00                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 6.1E-04                                       | 6.1E-02                                           |
| Tert-amyl ethyl ether (TAEE)              | 919-94-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Tert-amyl-methyl ether (TAME)             | 994-05-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0     | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 8.6E+00                                         | 5.7E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.7E+01                                       | 1.7E+03                                           |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | 4.7E+00                                                           | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3     | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6    | 3.3E-03                                         | 2.3E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | —                                                 | —                                                                  | —                                                                 | 3.5E-02                                       | 3.5E+00                                           | 7.3E-01                                       | 7.3E+01                                           |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5     | —                                               | 3.0E+01                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | —                                                 | —                                                                  | —                                                                 | 4.6E-03                                       | 4.6E-01                                           | 4.9E-01                                       | 4.9E+01                                           |
| Tetrachloroethylene [PCE]                 | 127-18-4    | 6.4E-02                                         | 2.9E+03                                          | —                                                 | —                                                                  | —                                                                 | 3.9E-01                                         | 1.7E+03                                          | —                                                 | —                                                                  | —                                                                 | 4.3E-01                                       | 4.3E+01                                           | 5.1E-01                                       | 5.1E+01                                           |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | 4.7E+02                                                           | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2     | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | 4.7E+02                                                           | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | 4.7E+02                                                           | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Tetrachlorvinphos (Stiropfos)             | 22248-79-9  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 3.4E+03                                          | 1.5E+04                                           | —                                                                  | 6.6E+02                                                           | —                                             | —                                                 | 1.0E+00                                       | 1.0E+02                                           |
| Tetradifon                                | 116-29-0    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+03                                          | 7.1E+03                                           | —                                                                  | 3.1E+02                                                           | —                                             | —                                                 | 4.9E-01                                       | 4.9E+01                                           |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E-02                                       | 1.2E+00                                           |
| Tetraethyl lead                           | 78-00-2     | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E-03                                          | 3.6E-02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-06                                       | 2.4E-04                                           |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 9.0E-01                                          | 3.9E+00                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.7E-04                                       | 2.7E-02                                           |
| Tetraethylene glycol                      | 112-60-7    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.7E+04                                          | 1.2E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 8.1E+00                                       | 8.1E+02                                           |
| Tetrahydrofuran                           | 109-99-9    | 1.3E-02                                         | 8.0E+02                                          | —                                                 | —                                                                  | —                                                                 | 2.1E+00                                         | 7.4E+04                                          | —                                                 | —                                                                  | —                                                                 | 1.2E-01                                       | 1.2E+01                                           | 2.2E+01                                       | 2.2E+03                                           |
| Tetrahydropyran                           | 142-68-7    | 1.3E-02                                         | 8.0E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | 1.2E-01                                       | 1.2E+01                                           | 4.9E+00                                       | 4.9E+02                                           |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.0E+03                                          | 8.9E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 6.1E-01                                       | 6.1E+01                                           |
| Thallium                                  | 7440-28-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.5E+00                                          | 2.4E+02                                           | 4.4E-01                                                            | 1.0E+00                                                           | —                                             | —                                                 | 1.6E-03                                       | 1.6E-01                                           |
| Thiofanox                                 | 39196-18-4  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Thionazin                                 | 297-97-2    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 5.7E+00                                          | 2.5E+01                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.7E-03                                       | 1.7E-01                                           |
| Thiophanate-methyl                        | 23564-05-8  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.6E+03                                          | 2.8E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.0E+00                                       | 2.0E+02                                           |
| Thiram                                    | 137-26-8    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+02                                          | 1.8E+03                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E-01                                       | 1.2E+01                                           |
| Tin                                       | 7440-31-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.9E+04                                          | 2.1E+05                                           | 3.9E+03                                                            | 9.4E+03                                                           | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Titanium                                  | 7440-32-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+05                                          | 5.3E+05                                           | 3.3E+04                                                            | 7.8E+04                                                           | —                                             | —                                                 | 1.2E+00                                       | 1.2E+04                                           |
| Toluene                                   | 108-88-3    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.3E+00                                         | 6.6E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.0E+00                                       | 2.0E+02                                           |
| Toluene diisocyanate, 2,4/2,6-            | 26471-62-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.3E-05                                         | —                                                | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | —                                             | —                                                 |
| Toluenediamine, 2,4-                      | 95-80-7     | —                                               | 1.9E+00                                          | 6.5E+00                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.9E-04                                       | 2.9E-02                                           | —                                             | —                                                 |
| Toluenediamine, 2,6-                      | 823-40-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Toluidine, o-                             | 95-53-4     | 4.8E-04                                         | 3.8E+02                                          | 8.7E+01                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.7E-02                                       | 5.7E+00                                           | —                                             | —                                                 |
| Toluidine, p-                             | 106-49-0    | —                                               | 2.0E+02                                          | 1.1E+02                                           | —                                                                  | —                                                                 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.0E-02                                       | 3.0E+00                                           | —                                             | —                                                 |
| Toxaphene                                 | 8001-35-2   | 7.6E-05                                         | 5.5E+00                                          | 1.9E+01                                           | —                                                                  | 5.3E-01                                                           | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | 4.8E+00                                                           | 8.3E-04                                       | 8.3E-02                                           | 7.6E-03                                       | 7.6E-01                                           |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                                |                                                                |                                                            |                                                                |
|---------------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|
|                                                   |            | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                               |                                                                | Noncarcinogenic                                            |                                                                |
|                                                   |            | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| TPH, TX1005, C6-C12                               | TPH-1005-1 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E-01                                                    | 9.8E+01                                                        |
| TPH, TX1005, >C12-C28                             | TPH-1005-2 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E-01                                                    | 9.8E+01                                                        |
| TPH, TX1005, >C12-C35                             | TPH-1005-3 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E-01                                                    | 9.8E+01                                                        |
| TPH, TX1005, >C28-C35                             | TPH-1005-4 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 9.8E-01                                                    | 9.8E+01                                                        |
| TP Silvex, 2,4,5-                                 | 93-72-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.6E+02                                          | 2.8E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.0E-01                                                    | 2.0E+01                                                        |
| Triademenol                                       | 55219-65-3 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E-01                                                    | 7.3E+01                                                        |
| Triallate                                         | 2303-17-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.1E+03                                          | 4.6E+03                                           | —                                                                  | 2.0E+02                                                           | —                                                          | —                                                              | 3.2E-01                                                    | 3.2E+01                                                        |
| Triaminotrinitrobenzene (TATB)                    | 3058-38-6  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E-02                                                    | 7.3E+00                                                        |
| Tributyltin oxide                                 | 56-35-9    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | 4.7E+00                                                           | —                                                          | —                                                              | 7.3E-03                                                    | 7.3E-01                                                        |
| Trichloro-1,2,2-trifluoroethane, 1,1,2-           | 76-13-1    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.2E+00                                         | 1.0E+06                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E+02                                                    | 7.3E+04                                                        |
| Trichlorobenzene, 1,2,3-                          | 87-61-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-03                                         | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E-02                                                    | 7.3E+00                                                        |
| Trichlorobenzene, 1,2,4-                          | 120-82-1   | —                                               | 2.1E+02                                          | 7.2E+02                                           | —                                                                  | —                                                                 | 2.1E-03                                         | 8.2E+02                                          | 3.6E+03                                           | —                                                                  | —                                                                 | 3.1E-02                                                    | 3.1E+00                                                        | 2.4E-01                                                    | 2.4E+01                                                        |
| Trichlorobenzene, 1,3,5-                          | 108-70-3   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-03                                         | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E-02                                                    | 7.3E+00                                                        |
| Trichloroethane, 1,1,1-                           | 71-55-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.3E+00                                         | 1.6E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E+01                                                    | 4.9E+03                                                        |
| Trichloroethane, 1,1,2-                           | 79-00-5    | 1.5E-03                                         | 1.1E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                               | 3.3E+02                                          | —                                                 | —                                                                  | —                                                                 | 1.6E-02                                                    | 1.6E+00                                                        | 9.8E-02                                                    | 9.8E+00                                                        |
| Trichloroethylene [TCE]                           | 79-01-6    | 5.9E-03                                         | 1.3E+02                                          | —                                                 | —                                                                  | —                                                                 | 2.1E-03                                         | 4.1E+01                                          | —                                                 | —                                                                  | —                                                                 | 2.0E-02                                                    | 2.0E+00                                                        | 1.2E-02                                                    | 1.2E+00                                                        |
| Trichlorofluoromethane                            | 75-69-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E+00                                                    | 7.3E+02                                                        |
| Trichloronate                                     | 327-98-0   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+02                                          | 1.1E+03                                           | —                                                                  | 4.7E+01                                                           | —                                                          | —                                                              | 7.3E-02                                                    | 7.3E+00                                                        |
| Trichlorophenol, 2,3,4-                           | 15950-66-0 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Trichlorophenol, 2,3,5-                           | 933-78-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Trichlorophenol, 2,3,6-                           | 933-75-5   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | 1.6E+03                                                           | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Trichlorophenol, 2,4,5-                           | 95-95-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Trichlorophenol, 2,4,6-                           | 88-06-2    | 7.8E-03                                         | 5.5E+02                                          | 1.9E+03                                           | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | 8.3E-02                                                    | 8.3E+00                                                        | 2.4E-02                                                    | 2.4E+00                                                        |
| Trichlorophenol, 3,4,5-                           | 609-19-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E+00                                                    | 2.4E+02                                                        |
| Trichlorophenoxyacetic acid, 2,4,5-               | 93-76-5    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+02                                          | 3.6E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.4E-01                                                    | 2.4E+01                                                        |
| Trichloropropane, 1,1,2-                          | 598-77-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-04                                         | 4.1E+02                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E-01                                                    | 1.2E+01                                                        |
| Trichloropropane, 1,2,3-                          | 96-18-4    | —                                               | 2.0E-01                                          | —                                                 | —                                                                  | —                                                                 | 3.1E-04                                         | 3.3E+02                                          | —                                                 | —                                                                  | —                                                                 | 3.0E-05                                                    | 3.0E-03                                                        | 9.8E-02                                                    | 9.8E+00                                                        |
| Triethanolamine                                   | 102-71-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.6E-02                                         | 1.6E+04                                          | 7.1E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E+00                                                    | 4.9E+02                                                        |
| Triethylamine                                     | 121-44-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.3E-03                                         | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Triethylene glycol                                | 112-27-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+05                                          | 7.1E+05                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E+01                                                    | 4.9E+03                                                        |
| Triethylphosphorothioate, O, O, O-                | 126-68-1   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 6.8E-01                                          | 3.0E+00                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 2.0E-04                                                    | 2.0E-02                                                        |
| Trifluralin                                       | 1582-09-8  | —                                               | 7.9E+02                                          | 2.7E+03                                           | —                                                                  | 7.6E+01                                                           | —                                               | 6.1E+02                                          | 2.7E+03                                           | —                                                                  | 1.2E+02                                                           | 1.2E-01                                                    | 1.2E+01                                                        | 1.8E-01                                                    | 1.8E+01                                                        |
| Trimethylamine                                    | 75-50-3    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.3E-03                                         | —                                                | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | —                                                          | —                                                              |
| Trimethylbenzene, 1,2,3-                          | 526-73-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E-01                                         | 2.8E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 8.3E-01                                                    | 8.3E+01                                                        |
| Trimethylbenzene, 1,2,4-                          | 95-63-6    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E-01                                         | 2.8E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 8.3E-01                                                    | 8.3E+01                                                        |
| Trimethylbenzene, 1,3,5-                          | 108-67-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E-01                                         | 2.8E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                                          | —                                                              | 8.3E-01                                                    | 8.3E+01                                                        |
| Trinitrobenzene, 1,3,5-                           | 99-35-4    | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 7.3E-01                                                    | 7.3E+01                                                        |
| Trinitrophenylmethylnitramine (tetryl; nitramine) | 479-45-8   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+02                                          | 1.4E+03                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 4.9E-02                                                    | 4.9E+00                                                        |
| Trinitrotoluene, 2,4,6-                           | 118-96-7   | —                                               | 2.0E+02                                          | 6.9E+02                                           | —                                                                  | —                                                                 | —                                               | 4.1E+01                                          | 1.8E+02                                           | —                                                                  | —                                                                 | 3.0E-02                                                    | 3.0E+00                                                        | 1.2E-02                                                    | 1.2E+00                                                        |
| Tungsten (as sodium tungstate dihydride)          | 7440-33-7  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.5E-03                                         | 8.2E+01                                          | 7.1E+02                                           | 6.5E+00                                                            | 1.6E+01                                                           | —                                                          | —                                                              | 2.4E-02                                                    | 2.4E+00                                                        |
| Uranium (soluble salts)                           | 7440-61-1  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 4.2E-05                                         | 2.5E+02                                          | 1.1E+04                                           | 2.0E+01                                                            | 4.7E+01                                                           | —                                                          | —                                                              | 7.3E-02                                                    | 7.3E+00                                                        |
| Valeric acid (pentanoic acid)                     | 109-52-4   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.0E-03                                         | 4.1E+04                                          | 1.8E+05                                           | —                                                                  | —                                                                 | —                                                          | —                                                              | 1.2E+01                                                    | 1.2E+03                                                        |
| Vanadium                                          | 7440-62-2  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 3.1E-05                                         | 1.5E+02                                          | 1.7E+02                                           | 1.2E+01                                                            | 2.8E+01                                                           | —                                                          | —                                                              | 4.4E-02                                                    | 4.4E+00                                                        |

**Table 9**  
**Individual RBELs Residential**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CAS       | Soil                                            |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   | Groundwater                                   |                                                   |                                               |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Carcinogenic                                    |                                                  |                                                   |                                                                    |                                                                   | Noncarcinogenic                                 |                                                  |                                                   |                                                                    |                                                                   | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | Air <sup>1</sup> RBEL <sub>Inh</sub><br>(mg/m3) | Soil <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/kg) | Soil <sup>1</sup> RBEL <sub>Derm</sub><br>(mg/kg) | AbgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>above-ground<br>(mg/kg) | BgVeg <sup>1</sup> RBEL <sub>Ing</sub><br>below-ground<br>(mg/kg) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) | GW <sup>1</sup> RBEL <sub>Ing</sub><br>(mg/L) | GW <sup>2</sup> RBEL <sub>Class 3</sub><br>(mg/L) |
| Vernam                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1929-77-7 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 8.2E+01                                          | 3.6E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E-02                                       | 2.4E+00                                           |
| Vinyl acetate                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 108-05-4  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 8.2E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+01                                       | 2.4E+03                                           |
| Vinyl chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 75-01-4   | 2.9E-03                                         | 4.0E+00                                          | —                                                 | —                                                                  | —                                                                 | 6.3E-02                                         | 2.5E+02                                          | —                                                 | —                                                                  | —                                                                 | 6.1E-04                                       | 6.1E-02                                           | 7.3E-02                                       | 7.3E+00                                           |
| Vinylcyclohexane                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 695-12-5  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 4.1E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.2E+01                                       | 1.2E+03                                           |
| Warfarin                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 81-81-2   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+01                                          | 1.1E+02                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Xylene, m-                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 108-38-3  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.4E-01                                         | 1.6E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| Xylene, o-                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 95-47-6   | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.4E-01                                         | 1.6E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| Xylene, p-                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 106-42-3  | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.4E-01                                         | 1.6E+05                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| Xylenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1330-20-7 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 6.4E-01                                         | 1.6E+04                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+00                                       | 4.9E+02                                           |
| Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7440-66-6 | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+04                                          | 2.1E+05                                           | 2.0E+03                                                            | 4.7E+03                                                           | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| 6 C aliphatics (TPH) (>53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.0E-01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| 6 C aliphatics (TPH) (<53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 7.0E-01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 1.9E+01                                         | 4.9E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| >8-10 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.2E-01                                         | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| >10-12 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.2E-01                                         | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| >12-16 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 5.2E-01                                         | 8.2E+03                                          | 3.6E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| >16-21 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+05                                          | 7.1E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                                                                                                                                                                                                                | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.3E+05                                          | 7.1E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.9E+01                                       | 3.9E+03                                           |
| >21-35 C aliphatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.6E+05                                          | 5.7E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 4.9E+01                                       | 4.9E+03                                           |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only)                                                                                                                                                                                                                                                                                                                                                                                                                | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 1.3E+05                                          | 5.7E+05                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 3.9E+01                                       | 3.9E+03                                           |
| >7-8 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.0E+00                                         | 8.2E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| >8-10 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 3.3E+03                                          | —                                                 | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| >10-12 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| >12-16 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | 2.1E-01                                         | 3.3E+03                                          | 1.4E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 9.8E-01                                       | 9.8E+01                                           |
| >16-21 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| >21-35 C aromatics (TPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA        | —                                               | —                                                | —                                                 | —                                                                  | —                                                                 | —                                               | 2.5E+03                                          | 1.1E+04                                           | —                                                                  | —                                                                 | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| <b>Footnotes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                               |                                                   |                                               |                                                   |
| <b>1</b> Based on primary MCLs when available                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                               |                                                   |                                               |                                                   |
| <b>2</b> 100 x <sup>GW</sup> GW <sub>Ing</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                               |                                                   |                                               |                                                   |
| <b>3</b> The total MCL for trihalomethanes (bromodichloromethane, bromoform, chloroform, and dibromochloromethane) is 0.08 mg/L.                                                                                                                                                                                                                                                                                                                                                     |           |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                               |                                                   |                                               |                                                   |
| <b>*</b> These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <a href="http://www.tceq.state.tx.us/remediation/trrp/trrp.html">http://www.tceq.state.tx.us/remediation/trrp/trrp.html</a> . |           |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                               |                                                   |                                               |                                                   |
| NA = not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                               |                                                   |                                               |                                                   |
| All values capped at 1E+06                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                                 |                                                  |                                                   |                                                                    |                                                                   |                                               |                                                   |                                               |                                                   |

This table shows the residential risk-based exposure limits for soil and groundwater with carcinogenic and non-carcinogenic values depicted.

end of worksheet

**Last Revised: February 6, 2025**

|                         |           |   |   |   |   |   |   |   |   |
|-------------------------|-----------|---|---|---|---|---|---|---|---|
| Ammonium polyphosphate* | 6833-79-9 | - | - | - | - | - | - | - | - |
|-------------------------|-----------|---|---|---|---|---|---|---|---|

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|-----------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                               |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                               |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Ammonium salts*                               | AMMONIUM   | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Aniline                                       | 62-53-3    | —                                               | 5.0E+03                             | 1.0E+04                              | 1.5E-03                                         | 7.2E+03                             | 1.4E+04                              | 3.6E-01                                       | 3.6E+01                                           | 5.1E-01                                       | 5.1E+01                                           |
| Anthracene                                    | 120-12-7   | —                                               | —                                   | —                                    | —                                               | 3.1E+05                             | 4.7E+05                              | —                                             | —                                                 | 2.2E+01                                       | 2.2E+03                                           |
| Anthraquinone, 9,10-                          | 84-65-1    | —                                               | 7.3E+02                             | 1.5E+03                              | —                                               | 2.0E+04                             | 4.1E+04                              | 5.2E-02                                       | 5.2E+00                                           | 1.5E+00                                       | 1.5E+02                                           |
| Antimony                                      | 7440-36-0  | —                                               | —                                   | —                                    | —                                               | 4.1E+02                             | 1.2E+03                              | —                                             | —                                                 | 2.9E-02                                       | 2.9E+00                                           |
| Aramite                                       | 140-57-8   | 5.8E-03                                         | 1.1E+03                             | 2.3E+03                              | —                                               | 5.1E+04                             | 1.0E+05                              | 8.2E-02                                       | 8.2E+00                                           | 3.7E+00                                       | 3.7E+02                                           |
| Arsenic                                       | 7440-38-2  | 2.7E-04                                         | 2.4E+02                             | 1.3E+03                              | —                                               | 3.9E+02                             | 2.0E+03                              | 1.4E-02                                       | 1.4E+00                                           | 2.2E-02                                       | 2.2E+00                                           |
| Arsine                                        | 7784-42-1  | —                                               | —                                   | —                                    | 7.3E-05                                         | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Atrazine                                      | 1912-24-9  | —                                               | 1.3E+02                             | 2.6E+02                              | —                                               | 3.6E+04                             | 7.2E+04                              | 9.2E-03                                       | 9.2E-01                                           | 2.6E+00                                       | 2.6E+02                                           |
| Azinphos-methyl (guthion)                     | 86-50-0    | —                                               | —                                   | —                                    | —                                               | 1.5E+03                             | 3.1E+03                              | —                                             | —                                                 | 1.1E-01                                       | 1.1E+01                                           |
| Azobenzene                                    | 103-33-3   | 1.3E-03                                         | 2.6E+02                             | 5.2E+02                              | —                                               | —                                   | —                                    | 1.9E-02                                       | 1.9E+00                                           | —                                             | —                                                 |
| Barium                                        | 7440-39-3  | —                                               | —                                   | —                                    | —                                               | 2.0E+05                             | 2.9E+05                              | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Bayleton                                      | 43121-43-3 | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Benefin (benfluralin)                         | 1861-40-1  | —                                               | —                                   | —                                    | —                                               | 3.1E+05                             | 6.1E+05                              | —                                             | —                                                 | 2.2E+01                                       | 2.2E+03                                           |
| Benomyl                                       | 17804-35-2 | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Benz-a-anthracene                             | 56-55-3    | 6.8E-04                                         | 2.9E+02                             | 4.4E+02                              | —                                               | —                                   | —                                    | 2.0E-02                                       | 2.0E+00                                           | —                                             | —                                                 |
| Benzaldehyde                                  | 100-52-7   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Benzene                                       | 71-43-2    | 1.9E-02                                         | 1.9E+03                             | —                                    | 4.1E-01                                         | 4.1E+03                             | —                                    | 1.4E-01                                       | 1.4E+01                                           | 2.9E-01                                       | 2.9E+01                                           |
| Benzenedicarbonitrile, 1,3-                   | 626-17-5   | —                                               | —                                   | —                                    | —                                               | 6.1E+03                             | 1.2E+04                              | —                                             | —                                                 | 4.4E-01                                       | 4.4E+01                                           |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | —                                               | —                                   | —                                    | 7.3E-03                                         | 4.1E+04                             | 8.2E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Benzenethiol                                  | 108-98-5   | —                                               | —                                   | —                                    | —                                               | 1.0E+03                             | —                                    | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Benzidine                                     | 92-87-5    | 6.1E-07                                         | 1.2E-01                             | 2.5E-01                              | —                                               | 3.1E+03                             | 6.1E+03                              | 8.9E-06                                       | 8.9E-04                                           | 2.2E-01                                       | 2.2E+01                                           |
| Benzo-a-pyrene                                | 50-32-8    | 6.8E-05                                         | 2.9E+01                             | 4.4E+01                              | 2.9E-06                                         | 3.1E+02                             | 4.7E+02                              | 2.0E-03                                       | 2.0E-01                                           | 2.2E-02                                       | 2.2E+00                                           |
| Benzo-b-fluoranthene                          | 205-99-2   | 6.8E-04                                         | 2.9E+02                             | 4.4E+02                              | —                                               | —                                   | —                                    | 2.0E-02                                       | 2.0E+00                                           | —                                             | —                                                 |
| Benzo-e-pyrene                                | 192-97-2   | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 4.7E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Benzo-g,h,i-perylene                          | 191-24-2   | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 4.7E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Benzoic acid                                  | 65-85-0    | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 2.9E+02                                       | 2.9E+04                                           |
| Benzo-j-fluoranthene                          | 205-82-3   | 6.8E-04                                         | 2.9E+02                             | 4.4E+02                              | —                                               | —                                   | —                                    | 2.0E-02                                       | 2.0E+00                                           | —                                             | —                                                 |
| Benzo-k-fluoranthene                          | 207-08-9   | 6.8E-03                                         | 2.9E+03                             | 4.4E+03                              | —                                               | —                                   | —                                    | 2.0E-01                                       | 2.0E+01                                           | —                                             | —                                                 |
| Benzophenone                                  | 119-61-9   | —                                               | —                                   | —                                    | —                                               | 6.8E+03                             | 1.4E+04                              | —                                             | —                                                 | 4.9E-01                                       | 4.9E+01                                           |
| Benzotrichloride                              | 98-07-7    | —                                               | 2.2E+00                             | 4.4E+00                              | —                                               | —                                   | —                                    | 1.6E-04                                       | 1.6E-02                                           | —                                             | —                                                 |
| Benzoyl peroxide                              | 94-36-0    | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Benzyl alcohol                                | 100-51-6   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Benzyl chloride                               | 100-44-7   | —                                               | 1.7E+02                             | —                                    | 1.5E-03                                         | 2.0E+03                             | —                                    | 1.2E-02                                       | 1.2E+00                                           | 1.5E-01                                       | 1.5E+01                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                                        | CAS       | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|------------------------------------------------------------|-----------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                            |           | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                            |           | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Benzyl dichloride                                          | 98-87-3   | —                                               | 1.7E+02                             | 3.4E+02                              | 1.5E-03                                         | 2.0E+03                             | 4.1E+03                              | 1.2E-02                                       | 1.2E+00                                           | 1.5E-01                                       | 1.5E+01                                           |
| Beryllium                                                  | 7440-41-7 | 1.7E-05                                         | —                                   | —                                    | 1.5E-06                                         | 2.0E+03                             | 2.9E+02                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Biphenyl, 1,1-                                             | 92-52-4   | —                                               | —                                   | —                                    | —                                               | 5.1E+05                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Biphenyl, 1,1'-, 2-phenoxy-                                | 6738-04-1 | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Biquinoline, 2,2'-                                         | 119-91-5  | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Bis (2-chloroethoxy) methane                               | 111-91-1  | 1.2E-04                                         | 2.6E+01                             | 5.2E+01                              | —                                               | 3.1E+03                             | 6.1E+03                              | 1.9E-03                                       | 1.9E-01                                           | 2.2E-01                                       | 2.2E+01                                           |
| Bis (2-chloroethyl) ether                                  | 111-44-4  | 1.2E-04                                         | 2.6E+01                             | —                                    | —                                               | —                                   | —                                    | 1.9E-03                                       | 1.9E-01                                           | —                                             | —                                                 |
| Bis (2-chloro-1-methylethyl) ether                         | 108-60-1  | 4.1E-03                                         | 4.1E+02                             | 8.2E+02                              | —                                               | 4.1E+04                             | 8.2E+04                              | 2.9E-02                                       | 2.9E+00                                           | 2.9E+00                                       | 2.9E+02                                           |
| Bis (2-chloromethyl) ether                                 | 542-88-1  | 6.6E-07                                         | 1.3E-01                             | —                                    | —                                               | —                                   | —                                    | 9.3E-06                                       | 9.3E-04                                           | —                                             | —                                                 |
| Bis (2-ethyl-hexyl) phthalate                              | 117-81-7  | —                                               | 2.0E+03                             | 7.8E+02                              | —                                               | 2.0E+04                             | 7.8E+03                              | 1.5E-01                                       | 1.5E+01                                           | 1.5E+00                                       | 1.5E+02                                           |
| Bismuth                                                    | 7440-69-9 | —                                               | —                                   | —                                    | —                                               | 5.1E+05                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Bisphenol A                                                | 80-05-7   | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Boron                                                      | 7440-42-8 | —                                               | —                                   | —                                    | 2.9E-02                                         | 2.0E+05                             | 1.0E+06                              | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Bromacil                                                   | 314-40-9  | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Bromo-2-chloroethane, 1-                                   | 107-04-0  | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Bromobenzene                                               | 108-86-1  | —                                               | —                                   | —                                    | 8.8E-02                                         | 8.2E+03                             | —                                    | —                                             | —                                                 | 5.8E-01                                       | 5.8E+01                                           |
| Bromodichloromethane                                       | 75-27-4   | —                                               | 4.6E+02                             | —                                    | —                                               | 8.2E+03                             | —                                    | 3.3E-02                                       | 3.3E+00                                           | 5.8E-01                                       | 5.8E+01                                           |
| Bromoform <sup>3</sup>                                     | 75-25-2   | 3.7E-02                                         | 3.6E+03                             | —                                    | —                                               | 2.0E+04                             | —                                    | 2.6E-01                                       | 2.6E+01                                           | 1.5E+00                                       | 1.5E+02                                           |
| Bromomethane                                               | 74-83-9   | —                                               | —                                   | —                                    | 5.7E-03                                         | 1.4E+03                             | —                                    | —                                             | —                                                 | 1.0E-01                                       | 1.0E+01                                           |
| Bromophenyl phenylether, 4-                                | 101-55-3  | 1.2E-05                                         | 1.9E+00                             | 3.8E+00                              | —                                               | —                                   | —                                    | 1.4E-04                                       | 1.4E-02                                           | —                                             | —                                                 |
| Butadiene, 1,3-                                            | 106-99-0  | 8.2E-02                                         | —                                   | —                                    | 4.8E-02                                         | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Butadiene, 2-methyl-1,3- (isoprene)                        | 78-79-5   | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Butanal (butyraldehyde)                                    | 123-72-8  | —                                               | —                                   | —                                    | 1.5E-01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Butane, 2,3-dimethyl-                                      | 79-29-8   | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Butanoic acid (butyric acid)                               | 107-92-6  | —                                               | —                                   | —                                    | 1.5E-03                                         | 5.1E+05                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Butanol, 2-                                                | 78-92-2   | —                                               | —                                   | —                                    | 4.4E+01                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Butanol, 2-methyl-1-                                       | 137-32-6  | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | —                                    | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Butanol, 2-methyl-2-                                       | 75-85-4   | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | —                                    | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Butanol, n-                                                | 71-36-3   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Butene, 1-                                                 | 106-98-9  | —                                               | —                                   | —                                    | 7.7E+00                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Butene, cis-2-                                             | 590-18-1  | —                                               | —                                   | —                                    | 2.3E+00                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Butene, trans-2-                                           | 624-64-6  | —                                               | —                                   | —                                    | 2.3E+00                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2  | —                                               | —                                   | —                                    | 2.3E+00                                         | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Butyl acetate                                              | 123-86-4  | —                                               | —                                   | —                                    | 6.9E+00                                         | 1.4E+05                             | —                                    | —                                             | —                                                 | 1.0E+01                                       | 1.0E+03                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                                   | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|-------------------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                       |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                       |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Butyl acrylate                                        | 141-32-2   | —                                               | —                                   | —                                    | —                                               | 9.2E+03                             | —                                    | —                                             | —                                                 | 6.6E-01                                       | 6.6E+01                                           |
| Butyl benzyl phthalate                                | 85-68-7    | —                                               | 1.5E+04                             | 3.0E+04                              | —                                               | 2.0E+05                             | 4.1E+05                              | 1.1E+00                                       | 1.1E+02                                           | 1.5E+01                                       | 1.5E+03                                           |
| Butyl ether, n- (dibutyl ether)                       | 142-96-1   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Butyl methacrylate                                    | 97-88-1    | —                                               | —                                   | —                                    | —                                               | 9.2E+04                             | 3.7E+04                              | —                                             | —                                                 | 6.6E+00                                       | 6.6E+02                                           |
| Butylate                                              | 2008-41-5  | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Butylbenzene, n-                                      | 104-51-8   | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Butylbenzene, sec-                                    | 135-98-8   | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Butylbenzene, tert-                                   | 98-06-6    | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Cacodylic acid                                        | 75-60-5    | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Cadmium                                               | 7440-43-9  | 8.3E-05                                         | —                                   | —                                    | 1.6E-05                                         | 1.0E+03                             | 5.1E+03                              | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Calcium*                                              | 7440-70-2  | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Caprolactam                                           | 105-60-2   | —                                               | —                                   | —                                    | —                                               | 5.1E+05                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Captan                                                | 133-06-2   | —                                               | 8.2E+03                             | 1.6E+04                              | —                                               | 1.3E+05                             | 2.7E+05                              | 5.8E-01                                       | 5.8E+01                                           | 9.5E+00                                       | 9.5E+02                                           |
| Carbaryl                                              | 63-25-2    | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Carbazole                                             | 86-74-8    | —                                               | 1.4E+03                             | 2.9E+03                              | —                                               | —                                   | —                                    | 1.0E-01                                       | 1.0E+01                                           | —                                             | —                                                 |
| Carbofuran                                            | 1563-66-2  | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 1.0E+04                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Carbon disulfide                                      | 75-15-0    | —                                               | —                                   | —                                    | 1.0E+00                                         | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Carbon tetrachloride                                  | 56-23-5    | 1.1E-02                                         | 4.1E+02                             | —                                    | 2.3E-01                                         | 4.1E+03                             | —                                    | 2.9E-02                                       | 2.9E+00                                           | 2.9E-01                                       | 2.9E+01                                           |
| Carbophenothion                                       | 786-19-6   | —                                               | —                                   | —                                    | —                                               | 1.3E+04                             | 2.7E+04                              | —                                             | —                                                 | 9.5E-01                                       | 9.5E+01                                           |
| Carbosulfan                                           | 55285-14-8 | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | 2.0E+04                              | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Carboxin                                              | 5234-68-4  | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Chloral                                               | 75-87-6    | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)    | 302-17-0   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid) | 133-90-4   | —                                               | —                                   | —                                    | —                                               | 1.5E+04                             | 3.1E+04                              | —                                             | —                                                 | 1.1E+00                                       | 1.1E+02                                           |
| Chlordane (technical)                                 | 12789-03-6 | 4.1E-04                                         | 8.2E+01                             | 4.1E+02                              | 1.0E-03                                         | 5.1E+02                             | 2.6E+03                              | 5.8E-03                                       | 5.8E-01                                           | 3.7E-02                                       | 3.7E+00                                           |
| Chlordane, cis- (alpha chlordane)                     | 5103-71-9  | 4.1E-04                                         | 8.2E+01                             | 1.6E+02                              | 1.0E-03                                         | 5.1E+02                             | 1.0E+03                              | 5.8E-03                                       | 5.8E-01                                           | 3.7E-02                                       | 3.7E+00                                           |
| Chlordane, trans- (gamma chlordane)                   | 5103-74-2  | 4.1E-04                                         | 8.2E+01                             | 1.6E+02                              | 1.0E-03                                         | 5.1E+02                             | 1.0E+03                              | 5.8E-03                                       | 5.8E-01                                           | 3.7E-02                                       | 3.7E+00                                           |
| Chlorfenvinphos                                       | 470-90-6   | —                                               | —                                   | —                                    | 2.9E-03                                         | 7.2E+02                             | 1.4E+03                              | —                                             | —                                                 | 5.1E-02                                       | 5.1E+00                                           |
| Chloride*                                             | 16887-00-6 | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Chlorine                                              | 7782-50-5  | —                                               | —                                   | —                                    | 1.3E-02                                         | 1.0E+05                             | 4.1E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Chloro-1,3-butadiene, 2-                              | 126-99-8   | 1.4E-04                                         | —                                   | —                                    | 2.9E-02                                         | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Chloro-2-propanol, 1-                                 | 127-00-4   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | —                                    | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Chloro-3-methylphenol, 4-                             | 59-50-7    | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 1.0E+04                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Chloroaniline, p-                                     | 106-47-8   | —                                               | 1.4E+02                             | 2.9E+02                              | —                                               | 4.1E+03                             | 8.2E+03                              | 1.0E-02                                       | 1.0E+00                                           | 2.9E-01                                       | 2.9E+01                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|---------------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                   |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                   |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Chlorobenzene                                     | 108-90-7   | —                                               | —                                   | —                                    | 7.3E-02                                         | 2.0E+04                             | —                                    | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Chlorobenzilate                                   | 510-15-6   | 5.2E-04                                         | 1.1E+02                             | 2.1E+02                              | —                                               | 2.0E+04                             | 4.1E+04                              | 7.6E-03                                       | 7.6E-01                                           | 1.5E+00                                       | 1.5E+02                                           |
| Chlorobromomethane (bromochloromethane)           | 74-97-5    | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Chlorodifluoromethane                             | 75-45-6    | —                                               | —                                   | —                                    | 7.3E+01                                         | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Chloroethane (ethyl chloride)                     | 75-00-3    | —                                               | —                                   | —                                    | 1.5E+01                                         | 4.1E+05                             | —                                    | —                                             | —                                                 | 2.9E+01                                       | 2.9E+03                                           |
| Chloroethanol, 2-                                 | 107-07-3   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | —                                    | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether) | 110-75-8   | —                                               | 2.6E+01                             | —                                    | 4.4E-04                                         | 2.0E+03                             | —                                    | 1.9E-03                                       | 1.9E-01                                           | 1.5E-01                                       | 1.5E+01                                           |
| Chloroform <sup>3</sup>                           | 67-66-3    | 1.8E-03                                         | —                                   | —                                    | 1.4E-01                                         | 1.0E+04                             | —                                    | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Chlorohexane, 1-                                  | 544-10-5   | —                                               | —                                   | —                                    | 1.5E+00                                         | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Chloromethane (methyl chloride)                   | 74-87-3    | 2.3E-02                                         | 2.2E+03                             | —                                    | 1.3E-01                                         | 3.7E+03                             | —                                    | 1.6E-01                                       | 1.6E+01                                           | 2.6E-01                                       | 2.6E+01                                           |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-) | 90-13-1    | —                                               | —                                   | —                                    | —                                               | 8.2E+04                             | 1.3E+05                              | —                                             | —                                                 | 5.8E+00                                       | 5.8E+02                                           |
| Chloronaphthalene, 2- (chloronaphthalene, beta)   | 91-58-7    | —                                               | —                                   | —                                    | —                                               | 8.2E+04                             | 1.3E+05                              | —                                             | —                                                 | 5.8E+00                                       | 5.8E+02                                           |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)  | 100-00-5   | —                                               | 4.5E+03                             | 9.1E+03                              | 8.8E-04                                         | 1.0E+03                             | 2.0E+03                              | 3.2E-01                                       | 3.2E+01                                           | 7.3E-02                                       | 7.3E+00                                           |
| Chlorophenol, 2-                                  | 95-57-8    | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | —                                    | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Chlorophenol, 3-                                  | 108-43-0   | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 1.0E+04                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Chlorophenol, 4-                                  | 106-48-9   | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 1.0E+04                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Chlorophenyl phenylether, 4-                      | 7005-72-3  | 1.2E-05                                         | 1.9E+00                             | 3.8E+00                              | —                                               | —                                   | —                                    | 1.4E-04                                       | 1.4E-02                                           | —                                             | —                                                 |
| Chloropropane, 2-                                 | 75-29-6    | —                                               | —                                   | —                                    | 1.5E-01                                         | 3.1E+04                             | —                                    | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Chlorothalonil                                    | 1897-45-6  | —                                               | 2.6E+03                             | 5.2E+03                              | —                                               | 1.5E+04                             | 3.1E+04                              | 1.9E-01                                       | 1.9E+01                                           | 1.1E+00                                       | 1.1E+02                                           |
| Chlorotoluene, o- (2-chlorotoluene)               | 95-49-8    | —                                               | —                                   | —                                    | 1.2E+00                                         | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Chlorotoluene, p- (4-chlorotoluene)               | 106-43-4   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | —                                    | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Chlorpyrifos                                      | 2921-88-2  | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Chromium (III)                                    | 16065-83-1 | —                                               | —                                   | —                                    | 2.0E-04                                         | 1.0E+06                             | 4.0E+05                              | —                                             | —                                                 | 1.1E+02                                       | 1.1E+04                                           |
| Chromium (total)                                  | 7440-47-3  | —                                               | —                                   | —                                    | 2.0E-04                                         | 1.0E+06                             | 4.0E+05                              | —                                             | —                                                 | 1.1E+02                                       | 1.1E+04                                           |
| Chromium (VI)                                     | 18540-29-9 | 1.8E-05                                         | —                                   | —                                    | 3.2E-04                                         | 3.2E+03                             | 1.5E+03                              | —                                             | —                                                 | 2.3E-01                                       | 2.3E+01                                           |
| Chrysene                                          | 218-01-9   | 6.8E-02                                         | 2.9E+04                             | 4.4E+04                              | —                                               | —                                   | —                                    | 2.0E+00                                       | 2.0E+02                                           | —                                             | —                                                 |
| Cobalt                                            | 7440-48-4  | 6.8E-06                                         | —                                   | —                                    | 9.2E-05                                         | 1.0E+04                             | 2.0E+05                              | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Copolymer acrylamide                              | 69418-26-4 | —                                               | —                                   | —                                    | —                                               | 2.0E+02                             | 4.1E+02                              | —                                             | —                                                 | 1.5E-02                                       | 1.5E+00                                           |
| Copper                                            | 7440-50-8  | —                                               | —                                   | —                                    | —                                               | 9.9E+04                             | 1.0E+06                              | —                                             | —                                                 | 7.1E+00                                       | 7.1E+02                                           |
| Coronene                                          | 191-07-1   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Coumaphos                                         | 56-72-4    | —                                               | —                                   | —                                    | —                                               | 7.2E+03                             | 1.4E+04                              | —                                             | —                                                 | 5.1E-01                                       | 5.1E+01                                           |
| Cresol                                            | 1319-77-3  | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Cresol, m- (3-methylphenol)                       | 108-39-4   | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Cresol, o- (2-methylphenol)                       | 95-48-7    | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|----------------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                    |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                    |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Cresol, p- (4-methylphenol)                        | 106-44-5   | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 1.0E+04                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Crotonaldehyde                                     | 123-73-9   | —                                               | 1.5E+01                             | —                                    | —                                               | 1.0E+03                             | —                                    | 1.1E-03                                       | 1.1E-01                                           | 7.3E-02                                       | 7.3E+00                                           |
| Cumene (isopropylbenzene)                          | 98-82-8    | —                                               | —                                   | —                                    | 5.8E-01                                         | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Cyanazine                                          | 21725-46-2 | —                                               | 3.4E+01                             | 6.8E+01                              | —                                               | 2.0E+03                             | 4.1E+03                              | 2.4E-03                                       | 2.4E-01                                           | 1.5E-01                                       | 1.5E+01                                           |
| Cyanide                                            | 57-12-5    | —                                               | —                                   | —                                    | 1.2E-03                                         | 6.1E+02                             | 1.2E+04                              | —                                             | —                                                 | 4.4E-02                                       | 4.4E+00                                           |
| Cyanogen                                           | 460-19-5   | —                                               | —                                   | —                                    | 1.2E-03                                         | 1.0E+03                             | —                                    | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Cycloate                                           | 1134-23-2  | —                                               | —                                   | —                                    | —                                               | 5.6E+04                             | 1.1E+05                              | —                                             | —                                                 | 4.0E+00                                       | 4.0E+02                                           |
| Cyclohexane                                        | 110-82-7   | —                                               | —                                   | —                                    | 8.8E+00                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 3.7E+02                                       | 3.7E+04                                           |
| Cyclohexanol                                       | 108-93-0   | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+02                                       | 3.7E+04                                           |
| Cyclohexanone                                      | 108-94-1   | —                                               | —                                   | —                                    | 1.0E+00                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 3.7E+02                                       | 3.7E+04                                           |
| Cyclohexene, 1-methanol-3-                         | 1679-51-2  | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Cyclohexene, 4-vinyl-1-                            | 100-40-3   | —                                               | —                                   | —                                    | 4.8E-01                                         | 2.2E+04                             | —                                    | —                                             | —                                                 | 1.6E+00                                       | 1.6E+02                                           |
| Cyclopentane                                       | 287-92-3   | —                                               | —                                   | —                                    | 3.5E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Cyclopentane, methyl-                              | 96-37-7    | —                                               | —                                   | —                                    | 1.5E+00                                         | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Cyclopentene                                       | 142-29-0   | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | —                                    | —                                             | —                                                 | 3.7E+02                                       | 3.7E+04                                           |
| Cyclotetramethylenetetranitramine (HMX)            | 2691-41-0  | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.5E+04                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Cyclotrimethylenetrinitramine (RDX)                | 121-82-4   | —                                               | 3.6E+02                             | 7.2E+02                              | —                                               | 4.1E+03                             | 8.2E+03                              | 2.6E-02                                       | 2.6E+00                                           | 2.9E-01                                       | 2.9E+01                                           |
| Cymene (isopropyltoluene)                          | 99-87-6    | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Cymoxanil                                          | 57966-95-7 | —                                               | —                                   | —                                    | —                                               | 1.3E+04                             | 2.7E+04                              | —                                             | —                                                 | 9.5E-01                                       | 9.5E+01                                           |
| Dacthal (DCPA)                                     | 1861-32-1  | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | 2.0E+04                              | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)  | 75-99-0    | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| DDD                                                | 72-54-8    | —                                               | 1.2E+02                             | 7.9E+02                              | —                                               | —                                   | —                                    | 8.5E-03                                       | 8.5E-01                                           | —                                             | —                                                 |
| DDE                                                | 72-55-9    | —                                               | 8.4E+01                             | 5.6E+02                              | —                                               | —                                   | —                                    | 6.0E-03                                       | 6.0E-01                                           | —                                             | —                                                 |
| DDT                                                | 50-29-3    | 4.2E-04                                         | 8.4E+01                             | 5.6E+02                              | —                                               | 5.1E+02                             | 3.4E+03                              | 6.0E-03                                       | 6.0E-01                                           | 3.7E-02                                       | 3.7E+00                                           |
| Demeton                                            | 8065-48-3  | —                                               | —                                   | —                                    | —                                               | 4.1E+01                             | 8.2E+01                              | —                                             | —                                                 | 2.9E-03                                       | 2.9E-01                                           |
| Desethylatrazine                                   | 6190-65-4  | —                                               | —                                   | —                                    | —                                               | 3.6E+04                             | 7.2E+04                              | —                                             | —                                                 | 2.6E+00                                       | 2.6E+02                                           |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone) | 123-42-2   | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | 8.2E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Diallate                                           | 2303-16-4  | —                                               | 4.7E+02                             | 9.4E+02                              | —                                               | —                                   | —                                    | 3.4E-02                                       | 3.4E+00                                           | —                                             | —                                                 |
| Diazinon                                           | 333-41-5   | —                                               | —                                   | —                                    | 1.5E-04                                         | 9.2E+02                             | 1.8E+03                              | —                                             | —                                                 | 6.6E-02                                       | 6.6E+00                                           |
| Dibenz(a,h)acridine                                | 226-36-8   | 3.7E-04                                         | 2.4E+01                             | 4.8E+01                              | —                                               | —                                   | —                                    | 1.7E-03                                       | 1.7E-01                                           | —                                             | —                                                 |
| Dibenz(a,j)acridine                                | 224-42-0   | 4.6E-04                                         | 3.9E+01                             | 6.0E+01                              | —                                               | —                                   | —                                    | 2.8E-03                                       | 2.8E-01                                           | —                                             | —                                                 |
| Dibenz-a,h-anthracene                              | 53-70-3    | 6.8E-05                                         | 2.9E+01                             | 4.4E+01                              | —                                               | —                                   | —                                    | 2.0E-03                                       | 2.0E-01                                           | —                                             | —                                                 |
| Dibenzo(a,e)pyrene                                 | 192-65-4   | 4.6E-05                                         | 3.9E+00                             | 7.8E+00                              | —                                               | —                                   | —                                    | 2.8E-04                                       | 2.8E-02                                           | —                                             | —                                                 |
| Dibenzo(a,h)pyrene                                 | 189-64-0   | 4.6E-06                                         | 3.9E-01                             | 7.8E-01                              | —                                               | —                                   | —                                    | 2.8E-05                                       | 2.8E-03                                           | —                                             | —                                                 |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                                      | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|----------------------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                          |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                          |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Dibenzo(a,i)pyrene                                       | 189-55-9   | 4.6E-06                                         | 3.9E-01                             | 7.8E-01                              | —                                               | —                                   | —                                    | 2.8E-05                                       | 2.8E-03                                           | —                                             | —                                                 |
| Dibenzofuran                                             | 132-64-9   | —                                               | —                                   | —                                    | —                                               | 4.1E+03                             | 8.2E+03                              | —                                             | —                                                 | 2.9E-01                                       | 2.9E+01                                           |
| Dibenzothiophene                                         | 132-65-0   | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Dibromo-3-chloropropane, 1,2-                            | 96-12-8    | 6.8E-06                                         | 3.6E+01                             | 7.2E+01                              | 2.9E-04                                         | 2.0E+02                             | 4.1E+02                              | 2.6E-03                                       | 2.6E-01                                           | 1.5E-02                                       | 1.5E+00                                           |
| Dibromochloromethane (chlorodibromomethane) <sup>3</sup> | 124-48-1   | —                                               | 3.4E+02                             | —                                    | —                                               | 2.0E+04                             | —                                    | 2.4E-02                                       | 2.4E+00                                           | 1.5E+00                                       | 1.5E+02                                           |
| Dibromofluoromethane                                     | 1868-53-7  | —                                               | —                                   | —                                    | —                                               | 2.0E+05                             | —                                    | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Dicamba                                                  | 1918-00-9  | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Dichlormid                                               | 37764-25-3 | —                                               | —                                   | —                                    | —                                               | 2.6E+04                             | 5.1E+04                              | —                                             | —                                                 | 1.8E+00                                       | 1.8E+02                                           |
| Dichloro-2-butene, 1,4-                                  | 764-41-0   | 9.7E-06                                         | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Dichloro-2-butene, 1,4- trans                            | 110-57-6   | 9.7E-06                                         | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Dichlorobenzene, 1,2-                                    | 95-50-1    | —                                               | —                                   | —                                    | 4.4E-02                                         | 9.2E+04                             | —                                    | —                                             | —                                                 | 6.6E+00                                       | 6.6E+02                                           |
| Dichlorobenzene, 1,3-                                    | 541-73-1   | —                                               | —                                   | —                                    | 1.2E-02                                         | 3.1E+04                             | —                                    | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Dichlorobenzene, 1,4-                                    | 106-46-7   | —                                               | 1.2E+03                             | —                                    | 7.7E-01                                         | —                                   | —                                    | 8.5E-02                                       | 8.5E+00                                           | —                                             | —                                                 |
| Dichlorobenzidine, 3,3'-                                 | 91-94-1    | —                                               | 6.4E+01                             | 1.3E+02                              | —                                               | —                                   | —                                    | 4.5E-03                                       | 4.5E-01                                           | —                                             | —                                                 |
| Dichlorobutane, 2,3-                                     | 7581-97-7  | —                                               | —                                   | —                                    | 1.0E-02                                         | 1.0E+04                             | —                                    | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Dichlorodifluoromethane                                  | 75-71-8    | —                                               | —                                   | —                                    | 1.5E-01                                         | 2.0E+05                             | —                                    | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Dichloroethane, 1,1-                                     | 75-34-3    | —                                               | —                                   | —                                    | 3.5E+00                                         | 2.0E+05                             | —                                    | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Dichloroethane, 1,2-                                     | 107-06-2   | 1.2E-02                                         | 3.1E+02                             | —                                    | 6.4E-02                                         | 8.0E+04                             | —                                    | 2.2E-02                                       | 2.2E+00                                           | 5.7E+00                                       | 5.7E+02                                           |
| Dichloroethylene, 1,1-                                   | 75-35-4    | —                                               | —                                   | —                                    | 5.0E-01                                         | 5.1E+04                             | —                                    | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Dichloroethylene, cis-1,2-                               | 156-59-2   | —                                               | —                                   | —                                    | 8.8E-02                                         | 2.0E+03                             | —                                    | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Dichloroethylene, trans-1,2                              | 156-60-5   | —                                               | —                                   | —                                    | 8.8E-02                                         | 2.0E+04                             | —                                    | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Dichlorofluoromethane                                    | 75-43-4    | —                                               | —                                   | —                                    | —                                               | 2.0E+05                             | —                                    | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Dichlorophenol, 2,3-                                     | 576-24-9   | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Dichlorophenol, 2,4-                                     | 120-83-2   | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Dichlorophenol, 2,5-                                     | 583-78-8   | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Dichlorophenol, 2,6-                                     | 87-65-0    | —                                               | —                                   | —                                    | —                                               | 1.0E+03                             | 2.0E+03                              | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Dichlorophenol, 3,4-                                     | 95-77-2    | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Dichlorophenol, 3,5-                                     | 591-35-5   | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)          | 94-82-6    | —                                               | —                                   | —                                    | —                                               | 8.2E+03                             | 1.6E+04                              | —                                             | —                                                 | 5.8E-01                                       | 5.8E+01                                           |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)                 | 94-75-7    | —                                               | —                                   | —                                    | —                                               | 2.0E+05                             | 8.2E+05                              | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid)    | 120-36-5   | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | 2.0E+04                              | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Dichloropropane, 1,2-                                    | 78-87-5    | 4.4E-02                                         | 7.7E+02                             | —                                    | 5.8E-03                                         | 1.3E+05                             | —                                    | 5.5E-02                                       | 5.5E+00                                           | 9.5E+00                                       | 9.5E+02                                           |
| Dichloropropane, 1,3-                                    | 142-28-9   | 1.0E-02                                         | 2.9E+02                             | —                                    | 2.9E-02                                         | 2.0E+04                             | —                                    | 2.0E-02                                       | 2.0E+00                                           | 1.5E+00                                       | 1.5E+02                                           |
| Dichloropropane, 2,2-                                    | 594-20-7   | —                                               | 4.2E+02                             | —                                    | 5.8E-03                                         | 9.2E+04                             | —                                    | 3.0E-02                                       | 3.0E+00                                           | 6.6E+00                                       | 6.6E+02                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                         | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|---------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                             |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                             |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Dichloropropanol, 2,3-                      | 616-23-9   | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Dichloropropene, 1,1-                       | 563-58-6   | 1.0E-02                                         | 2.9E+02                             | —                                    | 2.9E-02                                         | 3.1E+04                             | —                                    | 2.0E-02                                       | 2.0E+00                                           | 2.2E+00                                       | 2.2E+02                                           |
| Dichloropropene, 1,3- (mixed isomers)       | 542-75-6   | 1.0E-02                                         | 2.9E+02                             | —                                    | 2.9E-02                                         | 3.1E+04                             | —                                    | 2.0E-02                                       | 2.0E+00                                           | 2.2E+00                                       | 2.2E+02                                           |
| Dichloropropene, cis 1,3-                   | 10061-01-5 | —                                               | 5.3E+01                             | —                                    | 2.9E-02                                         | 1.0E+02                             | —                                    | 3.8E-03                                       | 3.8E-01                                           | 7.3E-03                                       | 7.3E-01                                           |
| Dichloropropene, trans 1,3-                 | 10061-02-6 | 1.0E-02                                         | 2.9E+02                             | —                                    | 2.9E-02                                         | 3.1E+04                             | —                                    | 2.0E-02                                       | 2.0E+00                                           | 2.2E+00                                       | 2.2E+02                                           |
| Dichlorvos                                  | 62-73-7    | —                                               | 9.9E+01                             | 2.0E+02                              | 7.3E-04                                         | 5.1E+02                             | 1.0E+03                              | 7.0E-03                                       | 7.0E-01                                           | 3.7E-02                                       | 3.7E+00                                           |
| Dicrotophos (bidrin)                        | 141-66-2   | —                                               | —                                   | —                                    | —                                               | 1.0E+02                             | 2.0E+02                              | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Dicyclopentadiene                           | 77-73-6    | —                                               | —                                   | —                                    | —                                               | 8.2E+04                             | —                                    | —                                             | —                                                 | 5.8E+00                                       | 5.8E+02                                           |
| Dieldrin                                    | 60-57-1    | 8.9E-06                                         | 1.8E+00                             | 3.6E+00                              | —                                               | 5.1E+01                             | 1.0E+02                              | 1.3E-04                                       | 1.3E-02                                           | 3.7E-03                                       | 3.7E-01                                           |
| Diethanolamine                              | 111-42-2   | —                                               | —                                   | —                                    | 3.7E-02                                         | 5.1E+02                             | 1.0E+03                              | —                                             | —                                                 | 3.7E-02                                       | 3.7E+00                                           |
| Diethyldithiocarbamate, sodium salt         | 148-18-5   | —                                               | 1.1E+02                             | —                                    | —                                               | 3.1E+04                             | —                                    | 7.6E-03                                       | 7.6E-01                                           | 2.2E+00                                       | 2.2E+02                                           |
| Diethyl phthalate                           | 84-66-2    | —                                               | —                                   | —                                    | —                                               | 8.2E+05                             | 1.0E+06                              | —                                             | —                                                 | 5.8E+01                                       | 5.8E+03                                           |
| Diethylene glycol                           | 111-46-6   | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Diethylene glycol monobutyl ether           | 112-34-5   | —                                               | —                                   | —                                    | 1.5E-04                                         | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Diethylhexyl adipate                        | 103-23-1   | —                                               | 2.4E+04                             | 4.8E+04                              | —                                               | 6.1E+05                             | 1.0E+06                              | 1.7E+00                                       | 1.7E+02                                           | 4.4E+01                                       | 4.4E+03                                           |
| Diethylstilbestrol                          | 56-53-1    | —                                               | 6.1E-03                             | 1.2E-02                              | —                                               | —                                   | —                                    | 4.3E-07                                       | 4.3E-05                                           | —                                             | —                                                 |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-) | 107-39-1   | —                                               | —                                   | —                                    | 2.9E-01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Diisopropylbenzene, p-                      | 100-18-5   | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | 2.0E+04                              | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Diisopropyl ether (2,2'-oxybis-propane)     | 108-20-3   | —                                               | —                                   | —                                    | 1.0E+00                                         | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Dimethenamid                                | 87674-68-8 | —                                               | —                                   | —                                    | —                                               | 1.5E+04                             | 3.1E+04                              | —                                             | —                                                 | 1.1E+00                                       | 1.1E+02                                           |
| Dimethoate                                  | 60-51-5    | —                                               | —                                   | —                                    | —                                               | 2.0E+02                             | 4.1E+02                              | —                                             | —                                                 | 1.5E-02                                       | 1.5E+00                                           |
| Dimethoxybenzidine, 3,3'-                   | 119-90-4   | —                                               | 2.0E+03                             | 4.1E+03                              | —                                               | —                                   | —                                    | 1.5E-01                                       | 1.5E+01                                           | —                                             | —                                                 |
| Dimethyl-2-nitrobenzene, 1,3-               | 81-20-9    | —                                               | —                                   | —                                    | 1.3E-02                                         | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Dimethyl-3-nitrobenzene, 1,2-               | 83-41-0    | —                                               | —                                   | —                                    | 1.3E-02                                         | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Dimethyl-4-nitrobenzene, 1-2-               | 99-51-4    | —                                               | —                                   | —                                    | 1.3E-02                                         | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Dimethyl-5-nitrobenzene, 1,3-               | 99-12-7    | —                                               | —                                   | —                                    | 1.3E-02                                         | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Dimethylphenethylamine, alpha, alpha-       | 122-09-8   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Dimethyl phenol, 2,4-                       | 105-67-9   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Dimethylaminoazobenzene, p-                 | 60-11-7    | —                                               | —                                   | —                                    | —                                               | 1.0E+01                             | 2.0E+01                              | —                                             | —                                                 | 7.3E-04                                       | 7.3E-02                                           |
| Dimethylbenz-a-anthracene, 7,12-            | 57-97-6    | 1.7E-06                                         | 1.1E-01                             | 1.8E-01                              | —                                               | —                                   | —                                    | 8.2E-06                                       | 8.2E-04                                           | —                                             | —                                                 |
| Dimethylbenzidine, 3,3'-                    | 119-93-7   | —                                               | 2.6E+00                             | 5.2E+00                              | —                                               | —                                   | —                                    | 1.9E-04                                       | 1.9E-02                                           | —                                             | —                                                 |
| Dimethylformamide, N,N-                     | 68-12-2    | —                                               | —                                   | —                                    | 4.4E-02                                         | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Dimethylnaphthalene, 1,3-                   | 575-41-7   | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | 6.3E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Dimethylphthalate                           | 131-11-3   | —                                               | —                                   | —                                    | —                                               | 8.2E+05                             | 1.0E+06                              | —                                             | —                                                 | 5.8E+01                                       | 5.8E+03                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                                           | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|---------------------------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                               |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                               |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Di-n-butyl phthalate                                          | 84-74-2    | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)        | 534-52-1   | —                                               | —                                   | —                                    | —                                               | 1.0E+02                             | 2.0E+02                              | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)                   | 99-65-0    | —                                               | —                                   | —                                    | —                                               | 1.0E+02                             | 2.0E+02                              | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Dinitrobenzene, 1,4-                                          | 100-25-4   | —                                               | —                                   | —                                    | —                                               | 1.0E+02                             | 2.0E+02                              | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Dinitrophenol, 2,4-                                           | 51-28-5    | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Dinitrophenol, 2,5-                                           | 329-71-5   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Dinitrotoluene, 2,4-                                          | 121-14-2   | —                                               | 4.2E+01                             | 8.4E+01                              | —                                               | 2.0E+03                             | 4.1E+03                              | 3.0E-03                                       | 3.0E-01                                           | 1.5E-01                                       | 1.5E+01                                           |
| Dinitrotoluene, 2,6-                                          | 606-20-2   | —                                               | 4.2E+01                             | 8.4E+01                              | —                                               | 1.0E+03                             | 2.0E+03                              | 3.0E-03                                       | 3.0E-01                                           | 7.3E-02                                       | 7.3E+00                                           |
| Di-n-octyl phthalate                                          | 117-84-0   | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | 2.0E+04                              | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Dinoseb                                                       | 88-85-7    | —                                               | —                                   | —                                    | —                                               | 1.0E+03                             | 2.0E+03                              | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Dioxane 1,4-                                                  | 123-91-1   | 8.2E-03                                         | 2.9E+02                             | —                                    | 1.6E-01                                         | 3.1E+04                             | —                                    | 2.0E-02                                       | 2.0E+00                                           | 2.2E+00                                       | 2.2E+02                                           |
| Dioxin (as 2,3,7,8-TCDD toxicity equivalent quotients (TEQs)) | 1746-01-6  | —                                               | —                                   | —                                    | —                                               | 7.2E-04                             | 4.8E-03                              | —                                             | —                                                 | 5.1E-08                                       | 5.1E-06                                           |
| Diphenyl ether                                                | 101-84-8   | —                                               | —                                   | —                                    | —                                               | 6.3E+03                             | 1.3E+04                              | —                                             | —                                                 | 4.5E-01                                       | 4.5E+01                                           |
| Diphenylamine                                                 | 122-39-4   | —                                               | —                                   | —                                    | —                                               | 2.6E+04                             | 5.1E+04                              | —                                             | —                                                 | 1.8E+00                                       | 1.8E+02                                           |
| Diphenylhydrazine, 1,2-                                       | 122-66-7   | 1.9E-04                                         | 3.6E+01                             | 7.2E+01                              | —                                               | —                                   | —                                    | 2.6E-03                                       | 2.6E-01                                           | —                                             | —                                                 |
| Dipropylene glycol                                            | 110-98-5   | —                                               | —                                   | —                                    | —                                               | 1.2E+05                             | 2.5E+05                              | —                                             | —                                                 | 8.8E+00                                       | 8.8E+02                                           |
| Diquat                                                        | 85-00-7    | —                                               | —                                   | —                                    | —                                               | 2.2E+03                             | 4.5E+03                              | —                                             | —                                                 | 1.6E-01                                       | 1.6E+01                                           |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)   | 142-73-4   | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | 2.0E+04                              | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Disulfoton                                                    | 298-04-4   | —                                               | —                                   | —                                    | —                                               | 4.1E+01                             | 8.2E+01                              | —                                             | —                                                 | 2.9E-03                                       | 2.9E-01                                           |
| Diuron                                                        | 330-54-1   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Dodecylphenol, 4-                                             | 104-43-8   | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Endosulfan                                                    | 115-29-7   | —                                               | —                                   | —                                    | —                                               | 6.1E+03                             | 1.2E+04                              | —                                             | —                                                 | 4.4E-01                                       | 4.4E+01                                           |
| Endosulfan I                                                  | 959-98-8   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Endosulfan II                                                 | 33213-65-9 | —                                               | —                                   | —                                    | —                                               | 6.1E+03                             | 1.2E+04                              | —                                             | —                                                 | 4.4E-01                                       | 4.4E+01                                           |
| Endosulfan sulfate                                            | 1031-07-8  | —                                               | —                                   | —                                    | —                                               | 6.1E+03                             | 1.2E+04                              | —                                             | —                                                 | 4.4E-01                                       | 4.4E+01                                           |
| Endothall                                                     | 145-73-3   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Endrin                                                        | 72-20-8    | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Endrin aldehyde                                               | 7421-93-4  | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Endrin ketone                                                 | 53494-70-5 | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Epichlorohydrin                                               | 106-89-8   | 3.4E-02                                         | 2.9E+03                             | —                                    | 1.5E-03                                         | 6.1E+03                             | —                                    | 2.1E-01                                       | 2.1E+01                                           | 4.4E-01                                       | 4.4E+01                                           |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate)         | 2104-64-5  | —                                               | —                                   | —                                    | —                                               | 1.0E+01                             | 2.0E+01                              | —                                             | —                                                 | 7.3E-04                                       | 7.3E-02                                           |
| Esfenvalerate                                                 | 66230-04-4 | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Ethalfuralin (sonolan)                                        | 55283-68-6 | —                                               | 3.2E+02                             | 6.4E+02                              | —                                               | 4.1E+04                             | 8.2E+04                              | 2.3E-02                                       | 2.3E+00                                           | 2.9E+00                                       | 2.9E+02                                           |
| Ethanol                                                       | 64-17-5    | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | —                                    | —                                             | —                                                 | 2.4E+03                                       | 2.4E+05                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                              | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|--------------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                  |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                  |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Ethanol, 2-amino-                                | 141-43-5   | —                                               | —                                   | —                                    | 3.4E-02                                         | 1.7E+03                             | 3.5E+03                              | —                                             | —                                                 | 1.2E-01                                       | 1.2E+01                                           |
| Ethanol, 2-(2-aminoethoxy)-                      | 929-06-6   | —                                               | —                                   | —                                    | —                                               | 5.1E+02                             | 1.0E+03                              | —                                             | —                                                 | 3.7E-02                                       | 3.7E+00                                           |
| Ethanol, 2-(2-ethoxyethoxy)-                     | 111-90-0   | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Ethanol, 2-(methylamino)-                        | 109-83-1   | —                                               | —                                   | —                                    | 6.7E-02                                         | 1.6E+04                             | 3.3E+04                              | —                                             | —                                                 | 1.2E+00                                       | 1.2E+02                                           |
| Ethion                                           | 563-12-2   | —                                               | —                                   | —                                    | —                                               | 5.1E+02                             | 1.0E+03                              | —                                             | —                                                 | 3.7E-02                                       | 3.7E+00                                           |
| Ethoprop                                         | 13194-48-4 | —                                               | 1.0E+03                             | 2.0E+03                              | —                                               | 1.0E+02                             | 2.0E+02                              | 7.3E-02                                       | 7.3E+00                                           | 7.3E-03                                       | 7.3E-01                                           |
| Ethoxy ethanol, 2-                               | 110-80-5   | —                                               | —                                   | —                                    | 2.9E-01                                         | 9.2E+04                             | —                                    | —                                             | —                                                 | 6.6E+00                                       | 6.6E+02                                           |
| Ethyl acetate                                    | 141-78-6   | —                                               | —                                   | —                                    | 3.4E-01                                         | 9.2E+05                             | —                                    | —                                             | —                                                 | 6.6E+01                                       | 6.6E+03                                           |
| Ethyl acrylate                                   | 140-88-5   | —                                               | 6.0E+02                             | —                                    | 1.2E-02                                         | 5.1E+03                             | —                                    | 4.3E-02                                       | 4.3E+00                                           | 3.7E-01                                       | 3.7E+01                                           |
| Ethyl benzene                                    | 100-41-4   | —                                               | —                                   | —                                    | 2.8E+00                                         | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Ethyl dipropylthiocarbamate, S-                  | 759-94-4   | —                                               | —                                   | —                                    | —                                               | 2.6E+04                             | 5.1E+04                              | —                                             | —                                                 | 1.8E+00                                       | 1.8E+02                                           |
| Ethyl ether                                      | 60-29-7    | —                                               | —                                   | —                                    | —                                               | 2.0E+05                             | —                                    | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Ethyl methacrylate                               | 97-63-2    | —                                               | —                                   | —                                    | 4.4E-01                                         | 9.2E+04                             | —                                    | —                                             | —                                                 | 6.6E+00                                       | 6.6E+02                                           |
| Ethyl methanesulfonate                           | 62-50-0    | 1.5E-03                                         | 2.9E+02                             | 5.8E+02                              | —                                               | —                                   | —                                    | 2.1E-02                                       | 2.1E+00                                           | —                                             | —                                                 |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane) | 637-92-3   | —                                               | —                                   | —                                    | 4.4E-01                                         | 1.0E+03                             | —                                    | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Ethyl-1-hexanol, 2-                              | 104-76-7   | —                                               | —                                   | —                                    | —                                               | 1.5E+05                             | 3.1E+05                              | —                                             | —                                                 | 1.1E+01                                       | 1.1E+03                                           |
| Ethyl-2-hexenal, 2-                              | 645-62-5   | —                                               | —                                   | —                                    | —                                               | 1.5E+05                             | —                                    | —                                             | —                                                 | 1.1E+01                                       | 1.1E+03                                           |
| Ethyl-2-methyl benzene, 1-                       | 611-14-3   | —                                               | —                                   | —                                    | 5.8E-01                                         | 5.1E+04                             | —                                    | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Ethyl-4-methyl benzene, 1-                       | 622-96-8   | —                                               | —                                   | —                                    | 5.8E-01                                         | 5.1E+04                             | —                                    | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Ethylene*                                        | 74-85-1    | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Ethylene dibromide (dibromoethane, 1,2- )        | 106-93-4   | 9.3E-04                                         | 1.4E+01                             | —                                    | 9.8E-02                                         | 9.2E+03                             | —                                    | 1.0E-03                                       | 1.0E-01                                           | 6.6E-01                                       | 6.6E+01                                           |
| Ethylene glycol                                  | 107-21-1   | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Ethylene oxide                                   | 75-21-8    | 2.9E-02                                         | 2.8E+01                             | —                                    | —                                               | —                                   | —                                    | 2.0E-03                                       | 2.0E-01                                           | —                                             | —                                                 |
| Ethylene thiourea                                | 96-45-7    | —                                               | 2.6E+02                             | 5.2E+02                              | —                                               | 8.2E+01                             | 1.6E+02                              | 1.9E-02                                       | 1.9E+00                                           | 5.8E-03                                       | 5.8E-01                                           |
| Ethylenediamine                                  | 107-15-3   | —                                               | —                                   | —                                    | —                                               | 9.2E+04                             | —                                    | —                                             | —                                                 | 6.6E+00                                       | 6.6E+02                                           |
| Ethylenimine                                     | 151-56-4   | 2.2E-06                                         | 4.4E-01                             | —                                    | —                                               | —                                   | —                                    | 3.1E-05                                       | 3.1E-03                                           | —                                             | —                                                 |
| Ethylhexyl acrylate, 2-                          | 103-11-7   | —                                               | 6.0E+02                             | 1.2E+03                              | —                                               | —                                   | —                                    | 4.3E-02                                       | 4.3E+00                                           | —                                             | —                                                 |
| Famphur                                          | 52-85-7    | —                                               | —                                   | —                                    | —                                               | 3.1E+01                             | 6.1E+01                              | —                                             | —                                                 | 2.2E-03                                       | 2.2E-01                                           |
| Fensulfothion                                    | 115-90-2   | —                                               | —                                   | —                                    | —                                               | 1.0E+03                             | 2.0E+03                              | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Fenthion                                         | 55-38-9    | —                                               | —                                   | —                                    | —                                               | 7.2E+01                             | 1.4E+02                              | —                                             | —                                                 | 5.1E-03                                       | 5.1E-01                                           |
| Fenuron                                          | 101-42-8   | —                                               | —                                   | —                                    | —                                               | 7.2E+04                             | 1.4E+05                              | —                                             | —                                                 | 5.1E+00                                       | 5.1E+02                                           |
| Fluoranthene                                     | 206-44-0   | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | 6.3E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Fluorene                                         | 86-73-7    | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | 6.3E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Fluorine (soluble fluoride)                      | 7782-41-4  | —                                               | —                                   | —                                    | 3.9E-02                                         | 6.1E+04                             | 1.0E+06                              | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                               | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|---------------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                   |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                   |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Fluorochloridone                                  | 61213-25-0 | —                                               | —                                   | —                                    | —                                               | 7.7E+03                             | 1.5E+04                              | —                                             | —                                                 | 5.5E-01                                       | 5.5E+01                                           |
| Fonofos                                           | 944-22-9   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Formaldehyde                                      | 50-00-0    | —                                               | —                                   | —                                    | 1.6E-02                                         | 2.0E+05                             | —                                    | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Formic acid                                       | 64-18-6    | —                                               | —                                   | —                                    | 4.4E-03                                         | 9.2E+05                             | —                                    | —                                             | —                                                 | 6.6E+01                                       | 6.6E+03                                           |
| Furan                                             | 110-00-9   | —                                               | —                                   | —                                    | —                                               | 1.0E+03                             | —                                    | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Furfural                                          | 98-01-1    | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | —                                    | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Glycidylaldehyde                                  | 765-34-4   | —                                               | —                                   | —                                    | 1.5E-03                                         | 4.1E+02                             | —                                    | —                                             | —                                                 | 2.9E-02                                       | 2.9E+00                                           |
| Glyphosate                                        | 1071-83-6  | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 7.3E+01                                       | 7.3E+03                                           |
| Heptachlor                                        | 76-44-8    | 3.1E-05                                         | 6.4E+00                             | 1.3E+01                              | —                                               | 5.1E+02                             | 1.0E+03                              | 4.5E-04                                       | 4.5E-02                                           | 3.7E-02                                       | 3.7E+00                                           |
| Heptachlor epoxide                                | 1024-57-3  | 1.6E-05                                         | 3.1E+00                             | 6.3E+00                              | —                                               | 1.3E+01                             | 2.7E+01                              | 2.2E-04                                       | 2.2E-02                                           | 9.5E-04                                       | 9.5E-02                                           |
| Heptane, n-                                       | 142-82-5   | —                                               | —                                   | —                                    | 1.3E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Heptanoic acid, n-                                | 111-14-8   | —                                               | —                                   | —                                    | 1.5E-03                                         | 5.1E+05                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Hexachlorobenzene                                 | 118-74-1   | 8.9E-05                                         | 1.8E+01                             | 3.6E+01                              | —                                               | 8.2E+02                             | 1.6E+03                              | 1.3E-03                                       | 1.3E-01                                           | 5.8E-02                                       | 5.8E+00                                           |
| Hexachlorobutadiene                               | 87-68-3    | 1.9E-03                                         | 3.7E+02                             | 7.3E+02                              | —                                               | 1.0E+03                             | 2.0E+03                              | 2.6E-02                                       | 2.6E+00                                           | 7.3E-02                                       | 7.3E+00                                           |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | 2.3E-05                                         | 4.5E+00                             | 2.3E+01                              | —                                               | 8.2E+03                             | 4.1E+04                              | 3.2E-04                                       | 3.2E-02                                           | 5.8E-01                                       | 5.8E+01                                           |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | 7.7E-05                                         | 1.6E+01                             | 7.9E+01                              | —                                               | —                                   | —                                    | 1.1E-03                                       | 1.1E-01                                           | —                                             | —                                                 |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | 8.0E-05                                         | 1.6E+01                             | 7.9E+01                              | —                                               | 3.1E+02                             | 1.5E+03                              | 1.1E-03                                       | 1.1E-01                                           | 2.2E-02                                       | 2.2E+00                                           |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | —                                               | 2.2E+01                             | 1.1E+02                              | —                                               | 3.1E+02                             | 1.5E+03                              | 1.6E-03                                       | 1.6E-01                                           | 2.2E-02                                       | 2.2E+00                                           |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | 8.0E-05                                         | 1.6E+01                             | 7.9E+01                              | —                                               | —                                   | —                                    | 1.1E-03                                       | 1.1E-01                                           | —                                             | —                                                 |
| Hexachlorocyclopentadiene                         | 77-47-4    | —                                               | —                                   | —                                    | 2.9E-04                                         | 6.1E+03                             | 1.2E+04                              | —                                             | —                                                 | 4.4E-01                                       | 4.4E+01                                           |
| Hexachloroethane                                  | 67-72-1    | —                                               | 7.2E+02                             | 1.4E+03                              | 4.4E-02                                         | 7.2E+02                             | 1.4E+03                              | 5.1E-02                                       | 5.1E+00                                           | 5.1E-02                                       | 5.1E+00                                           |
| Hexachlorophene                                   | 70-30-4    | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Hexachloropropylene                               | 1888-71-7  | —                                               | 7.2E+02                             | 1.4E+03                              | 4.4E-02                                         | 7.2E+02                             | 1.4E+03                              | 5.1E-02                                       | 5.1E+00                                           | 5.1E-02                                       | 5.1E+00                                           |
| Hexanal, 2-ethyl-                                 | 123-05-7   | —                                               | —                                   | —                                    | —                                               | 1.5E+05                             | 3.1E+05                              | —                                             | —                                                 | 1.1E+01                                       | 1.1E+03                                           |
| Hexane, n-                                        | 110-54-3   | —                                               | —                                   | —                                    | 9.8E-01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Hexanediamine, 1,6-                               | 124-09-4   | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 1.0E+04                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Hexanedinitrile                                   | 111-69-3   | —                                               | —                                   | —                                    | 8.8E-03                                         | 1.4E+03                             | 2.9E+03                              | —                                             | —                                                 | 1.0E-01                                       | 1.0E+01                                           |
| Hexanediol, 1,6-                                  | 629-11-8   | —                                               | —                                   | —                                    | 2.7E+01                                         | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+02                                       | 3.7E+04                                           |
| Hexanoic acid                                     | 142-62-1   | —                                               | —                                   | —                                    | 1.5E-03                                         | 6.5E+04                             | 1.3E+05                              | —                                             | —                                                 | 4.7E+00                                       | 4.7E+02                                           |
| Hexanone, 2-                                      | 591-78-6   | —                                               | —                                   | —                                    | 4.4E-02                                         | 5.1E+04                             | —                                    | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Hexazinone                                        | 51235-04-2 | —                                               | —                                   | —                                    | —                                               | 3.4E+04                             | 6.7E+04                              | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Hexene, 1-                                        | 592-41-6   | —                                               | —                                   | —                                    | 1.6E-01                                         | 3.4E+05                             | —                                    | —                                             | —                                                 | 2.4E+01                                       | 2.4E+03                                           |
| Hexene, cis-2-                                    | 7688-21-3  | —                                               | —                                   | —                                    | 1.6E-01                                         | 3.4E+05                             | —                                    | —                                             | —                                                 | 2.4E+01                                       | 2.4E+03                                           |
| Hexylene glycol (2-methyl-2,4-pentanediol)        | 107-41-5   | —                                               | —                                   | —                                    | —                                               | 3.1E+05                             | 6.1E+05                              | —                                             | —                                                 | 2.2E+01                                       | 2.2E+03                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                                | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|----------------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                    |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                    |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Hydrazine                                          | 302-01-2   | 8.3E-06                                         | 9.5E+00                             | —                                    | 4.4E-05                                         | —                                   | —                                    | 6.8E-04                                       | 6.8E-02                                           | —                                             | —                                                 |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)     | 1191-25-9  | —                                               | —                                   | —                                    | 1.5E-03                                         | 6.5E+04                             | 1.3E+05                              | —                                             | —                                                 | 4.7E+00                                       | 4.7E+02                                           |
| Hydrogen chloride (hydrochloric acid)*             | 7647-01-0  | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Hydroquinone                                       | 123-31-9   | —                                               | 4.8E+02                             | 9.5E+02                              | —                                               | 4.1E+04                             | 8.2E+04                              | 3.4E-02                                       | 3.4E+00                                           | 2.9E+00                                       | 2.9E+02                                           |
| Indene                                             | 95-13-6    | —                                               | —                                   | —                                    | 4.4E-03                                         | 2.0E+04                             | —                                    | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Indeno-1,2,3-cd-pyrene                             | 193-39-5   | 6.8E-04                                         | 2.9E+02                             | 4.4E+02                              | —                                               | —                                   | —                                    | 2.0E-02                                       | 2.0E+00                                           | —                                             | —                                                 |
| Iron*                                              | 7439-89-6  | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Isoamyl alcohol                                    | 123-51-3   | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | —                                    | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Isobutyl alcohol                                   | 78-83-1    | —                                               | —                                   | —                                    | —                                               | 3.1E+05                             | —                                    | —                                             | —                                                 | 2.2E+01                                       | 2.2E+03                                           |
| Isobutylene (2-methyl-1-propene)                   | 115-11-7   | —                                               | —                                   | —                                    | 1.6E+02                                         | 3.8E+03                             | —                                    | —                                             | —                                                 | 2.7E-01                                       | 2.7E+01                                           |
| Isobutyric acid (2-methylpropanoic acid)           | 79-31-2    | —                                               | —                                   | —                                    | —                                               | 5.1E+05                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Isodecanol                                         | 25339-17-7 | —                                               | —                                   | —                                    | —                                               | 1.6E+03                             | 3.3E+03                              | —                                             | —                                                 | 1.2E-01                                       | 1.2E+01                                           |
| Isodrin                                            | 465-73-6   | 8.3E-07                                         | 1.7E-01                             | 3.4E-01                              | —                                               | 3.1E+00                             | 6.1E+00                              | 1.2E-05                                       | 1.2E-03                                           | 2.2E-04                                       | 2.2E-02                                           |
| Isopentane                                         | 78-78-4    | —                                               | —                                   | —                                    | 3.5E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Isophorone                                         | 78-59-1    | —                                               | 3.0E+04                             | 6.0E+04                              | —                                               | 2.0E+05                             | 4.1E+05                              | 2.2E+00                                       | 2.2E+02                                           | 1.5E+01                                       | 1.5E+03                                           |
| Isopropyl acetate                                  | 108-21-4   | —                                               | —                                   | —                                    | —                                               | 7.2E+04                             | —                                    | —                                             | —                                                 | 5.1E+00                                       | 5.1E+02                                           |
| Isopropyl alcohol                                  | 67-63-0    | —                                               | —                                   | —                                    | 2.9E-01                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Isosafrole                                         | 120-58-1   | 6.5E-04                                         | 1.3E+02                             | 2.6E+02                              | —                                               | —                                   | —                                    | 9.3E-03                                       | 9.3E-01                                           | —                                             | —                                                 |
| Kelthane (dicofol)                                 | 115-32-2   | —                                               | —                                   | —                                    | —                                               | 6.1E+03                             | 1.2E+04                              | —                                             | —                                                 | 4.4E-01                                       | 4.4E+01                                           |
| Kepone (chlordecone)                               | 143-50-0   | 8.9E-06                                         | 2.9E+00                             | 5.7E+00                              | —                                               | 3.1E+02                             | 6.1E+02                              | 2.0E-04                                       | 2.0E-02                                           | 2.2E-02                                       | 2.2E+00                                           |
| Lead (inorganic)                                   | 7439-92-1  | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Leptophos                                          | 21609-90-5 | —                                               | —                                   | —                                    | 2.6E-06                                         | 5.1E+00                             | 1.0E+01                              | —                                             | —                                                 | 3.7E-04                                       | 3.7E-02                                           |
| Limonene, d-*                                      | 5989-27-5  | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Lithium                                            | 7439-93-2  | —                                               | —                                   | —                                    | —                                               | 7.2E+03                             | 1.4E+05                              | —                                             | —                                                 | 5.1E-01                                       | 5.1E+01                                           |
| Magnesium*                                         | 7439-95-4  | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Malathion                                          | 121-75-5   | —                                               | —                                   | —                                    | 2.9E-04                                         | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Maleic anhydride                                   | 108-31-6   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Maleic hydrazide                                   | 123-33-1   | —                                               | —                                   | —                                    | —                                               | 5.1E+05                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Malononitrile                                      | 109-77-3   | —                                               | —                                   | —                                    | —                                               | 1.0E+02                             | 2.0E+02                              | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Mancozeb                                           | 8018-01-7  | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Manganese                                          | 7439-96-5  | —                                               | —                                   | —                                    | 1.2E-03                                         | 1.4E+05                             | 1.7E+05                              | —                                             | —                                                 | 1.0E+01                                       | 1.0E+03                                           |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | —                                               | —                                   | —                                    | —                                               | 5.1E+02                             | 1.0E+03                              | —                                             | —                                                 | 3.7E-02                                       | 3.7E+00                                           |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | —                                               | —                                   | —                                    | —                                               | 1.0E+03                             | 2.0E+03                              | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Mercury (pH = 4.9)                                 | 7439-97-6  | —                                               | —                                   | —                                    | 4.4E-04                                         | 3.1E+02                             | 4.3E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|-----------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                               |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                               |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Mercury (pH=6.8)                              | 7439-97-6  | —                                               | —                                   | —                                    | 4.4E-04                                         | 3.1E+02                             | 4.3E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Merphos                                       | 150-50-5   | —                                               | —                                   | —                                    | —                                               | 3.1E+01                             | 6.1E+01                              | —                                             | —                                                 | 2.2E-03                                       | 2.2E-01                                           |
| Methacrylic acid (2-methyl-2-propenoic acid)  | 79-41-4    | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | —                                    | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Methacrylonitrile                             | 126-98-7   | —                                               | —                                   | —                                    | 4.4E-02                                         | 5.1E+04                             | —                                    | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Methanol                                      | 67-56-1    | —                                               | —                                   | —                                    | 1.1E+01                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Methapyrilene                                 | 91-80-5    | —                                               | 6.1E+00                             | 1.2E+01                              | —                                               | —                                   | —                                    | 4.3E-04                                       | 4.3E-02                                           | —                                             | —                                                 |
| Methomyl                                      | 16752-77-5 | —                                               | —                                   | —                                    | —                                               | 2.6E+04                             | 5.1E+04                              | —                                             | —                                                 | 1.8E+00                                       | 1.8E+02                                           |
| Methoxychlor                                  | 72-43-5    | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 1.0E+04                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Methoxyethanol, 2-                            | 109-86-4   | —                                               | —                                   | —                                    | 2.9E-02                                         | 2.8E+04                             | —                                    | —                                             | —                                                 | 2.0E+00                                       | 2.0E+02                                           |
| Methyl acetate (acetic acid, methyl ester)    | 79-20-9    | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | —                                    | —                                             | —                                                 | 7.3E+01                                       | 7.3E+03                                           |
| Methyl acrylate                               | 96-33-3    | —                                               | —                                   | —                                    | 2.9E-02                                         | 2.0E+03                             | —                                    | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Methyl amyl ketone (2-heptanone)              | 110-43-0   | —                                               | —                                   | —                                    | 4.1E+00                                         | 5.1E+04                             | —                                    | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Methyl chrysene, 1-                           | 3351-28-8  | 4.6E-02                                         | 3.9E+03                             | 6.0E+03                              | —                                               | —                                   | —                                    | 2.8E-01                                       | 2.8E+01                                           | —                                             | —                                                 |
| Methyl chrysene, 2-                           | 3351-32-4  | 4.6E-02                                         | 3.9E+03                             | 6.0E+03                              | —                                               | —                                   | —                                    | 2.8E-01                                       | 2.8E+01                                           | —                                             | —                                                 |
| Methyl chrysene, 6-                           | 1705-85-7  | 4.6E-03                                         | 3.9E+02                             | 6.0E+02                              | —                                               | —                                   | —                                    | 2.8E-02                                       | 2.8E+00                                           | —                                             | —                                                 |
| Methyl cyclohexane                            | 108-87-2   | —                                               | —                                   | —                                    | 4.4E+00                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 3.7E+02                                       | 3.7E+04                                           |
| Methyl ethyl ketone (2-butanone)              | 78-93-3    | —                                               | —                                   | —                                    | 1.3E+01                                         | 6.1E+05                             | —                                    | —                                             | —                                                 | 4.4E+01                                       | 4.4E+03                                           |
| Methyl iodide (iodomethane)                   | 74-88-4    | —                                               | —                                   | —                                    | —                                               | 1.4E+03                             | —                                    | —                                             | —                                                 | 1.0E-01                                       | 1.0E+01                                           |
| Methyl isobutyl ketone (4-methyl-2-pentanone) | 108-10-1   | —                                               | —                                   | —                                    | 4.4E+00                                         | 8.2E+04                             | —                                    | —                                             | —                                                 | 5.8E+00                                       | 5.8E+02                                           |
| Methyl mercury                                | 22967-92-6 | —                                               | —                                   | —                                    | —                                               | 1.0E+02                             | 2.0E+03                              | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Methyl methacrylate                           | 80-62-6    | —                                               | —                                   | —                                    | 1.0E+00                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 1.0E+02                                       | 1.0E+04                                           |
| Methyl methanesulfonate                       | 66-27-3    | 1.5E-03                                         | 2.9E+02                             | 5.8E+02                              | —                                               | —                                   | —                                    | 2.1E-02                                       | 2.1E+00                                           | —                                             | —                                                 |
| Methyl parathion                              | 298-00-0   | —                                               | —                                   | —                                    | —                                               | 2.6E+02                             | 5.1E+02                              | —                                             | —                                                 | 1.8E-02                                       | 1.8E+00                                           |
| Methyl-1-butene, 2-                           | 563-46-2   | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Methyl-1-propanal, 2- (isobutyraldehyde)      | 78-84-2    | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Methyl-2-butene, 2-                           | 513-35-9   | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Methyl-2-pentenal, 2-                         | 623-36-9   | —                                               | 1.5E+01                             | —                                    | —                                               | —                                   | —                                    | 1.1E-03                                       | 1.1E-01                                           | —                                             | —                                                 |
| Methylcholanthrene, 3-                        | 56-49-5    | 1.9E-05                                         | 1.3E+00                             | 2.0E+00                              | —                                               | —                                   | —                                    | 9.3E-05                                       | 9.3E-03                                           | —                                             | —                                                 |
| Methylene bromide (dibromomethane)            | 74-95-3    | —                                               | 3.8E+03                             | —                                    | 5.8E-03                                         | 6.1E+04                             | —                                    | 2.7E-01                                       | 2.7E+01                                           | 4.4E+00                                       | 4.4E+02                                           |
| Methylene chloride (dichloromethane)          | 75-09-2    | 1.5E+00                                         | 2.9E+05                             | —                                    | 1.9E+00                                         | 2.1E+04                             | —                                    | 2.1E+01                                       | 2.1E+03                                           | 1.5E+00                                       | 1.5E+02                                           |
| Methylene-bis (2-chloroaniline) 4,4'-         | 101-14-4   | 1.1E-03                                         | 2.9E+02                             | 5.7E+02                              | —                                               | 2.0E+03                             | 4.1E+03                              | 2.0E-02                                       | 2.0E+00                                           | 1.5E-01                                       | 1.5E+01                                           |
| Methylmercury hydroxide                       | 1184-57-2  | —                                               | —                                   | —                                    | —                                               | 1.0E+02                             | 2.0E+02                              | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Methylnaphthalene, 1-                         | 90-12-0    | —                                               | 9.9E+02                             | 1.5E+03                              | —                                               | 7.2E+04                             | 1.1E+05                              | 7.0E-02                                       | 7.0E+00                                           | 5.1E+00                                       | 5.1E+02                                           |
| Methylnaphthalene, 2-                         | 91-57-6    | —                                               | —                                   | —                                    | —                                               | 4.1E+03                             | 6.3E+03                              | —                                             | —                                                 | 2.9E-01                                       | 2.9E+01                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern            | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|--------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Methylpyrrolidone, N-          | 872-50-4   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Methylstyrene, alpha-          | 98-83-9    | —                                               | —                                   | —                                    | 3.7E-02                                         | 8.5E+03                             | —                                    | —                                             | —                                                 | 6.1E-01                                       | 6.1E+01                                           |
| Methyltetrahydrofuran, 2-      | 96-47-9    | 2.2E-02                                         | 3.8E+03                             | —                                    | —                                               | 2.0E+05                             | —                                    | 2.7E-01                                       | 2.7E+01                                           | 1.5E+01                                       | 1.5E+03                                           |
| Methyltetrahydropyran, 2-      | 10141-72-7 | 2.2E-02                                         | 3.8E+03                             | —                                    | —                                               | 2.0E+05                             | —                                    | 2.7E-01                                       | 2.7E+01                                           | 1.5E+01                                       | 1.5E+03                                           |
| Metolachlor                    | 51218-45-2 | —                                               | —                                   | —                                    | —                                               | 1.5E+05                             | 3.1E+05                              | —                                             | —                                                 | 1.1E+01                                       | 1.1E+03                                           |
| Metribuzin                     | 21087-64-9 | —                                               | —                                   | —                                    | —                                               | 2.6E+04                             | 5.1E+04                              | —                                             | —                                                 | 1.8E+00                                       | 1.8E+02                                           |
| Mirex                          | 2385-85-5  | —                                               | —                                   | —                                    | —                                               | 2.0E+02                             | 4.1E+02                              | —                                             | —                                                 | 1.5E-02                                       | 1.5E+00                                           |
| Molinate                       | 2212-67-1  | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Molybdenum                     | 7439-98-7  | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 3.9E+04                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Monocrotophos                  | 2157-98-4  | —                                               | —                                   | —                                    | —                                               | 6.1E+02                             | 1.2E+03                              | —                                             | —                                                 | 4.4E-02                                       | 4.4E+00                                           |
| Morpholine                     | 110-91-8   | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | —                                    | —                                             | —                                                 | 3.7E+04                                       | 3.7E+06                                           |
| Morpholine, N-butyl-           | 1005-67-0  | —                                               | —                                   | —                                    | —                                               | 2.4E+03                             | 4.7E+03                              | —                                             | —                                                 | 1.7E-01                                       | 1.7E+01                                           |
| MTBE (methyl tert-butyl ether) | 1634-04-4  | 1.6E-01                                         | 1.6E+04                             | —                                    | 4.4E+00                                         | 1.0E+04                             | —                                    | 1.1E+00                                       | 1.1E+02                                           | 7.3E-01                                       | 7.3E+01                                           |
| Naled                          | 300-76-5   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Naphthalene                    | 91-20-3    | —                                               | —                                   | —                                    | 4.4E-03                                         | 2.0E+04                             | 3.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Naphthoquinone, 1,4-           | 130-15-4   | —                                               | —                                   | —                                    | —                                               | 7.2E+03                             | 1.4E+04                              | —                                             | —                                                 | 5.1E-01                                       | 5.1E+01                                           |
| Naphthylamine, 1-              | 134-32-7   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Naphthylamine, 2-              | 91-59-8    | —                                               | 1.6E+01                             | 3.2E+01                              | —                                               | —                                   | —                                    | 1.1E-03                                       | 1.1E-01                                           | —                                             | —                                                 |
| Napropamide                    | 15299-99-7 | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Neopentyl glycol               | 126-30-7   | —                                               | —                                   | —                                    | —                                               | 3.1E+05                             | 6.1E+05                              | —                                             | —                                                 | 2.2E+01                                       | 2.2E+03                                           |
| Nickel and compounds           | 7440-02-0  | 2.4E-04                                         | —                                   | —                                    | 3.4E-04                                         | 2.0E+04                             | 1.6E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Nitrate-N                      | 14797-55-8 | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.2E+02                                       | 1.2E+04                                           |
| Nitrite-N                      | 14797-65-0 | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 1.0E+06                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Nitroaniline, 2-               | 88-74-4    | —                                               | —                                   | —                                    | 2.9E-04                                         | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Nitroaniline, 3-               | 99-09-2    | —                                               | 7.5E+02                             | 1.5E+03                              | 2.9E-04                                         | 3.1E+02                             | 6.1E+02                              | 5.4E-02                                       | 5.4E+00                                           | 2.2E-02                                       | 2.2E+00                                           |
| Nitroaniline, 4-               | 100-01-6   | —                                               | 1.4E+03                             | 2.9E+03                              | 8.8E-03                                         | 4.1E+03                             | 8.2E+03                              | 1.0E-01                                       | 1.0E+01                                           | 2.9E-01                                       | 2.9E+01                                           |
| Nitrobenzene                   | 98-95-3    | 1.0E-03                                         | —                                   | —                                    | 1.5E-03                                         | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Nitroglycerin                  | 55-63-0    | —                                               | 1.7E+03                             | 3.4E+03                              | —                                               | 1.0E+02                             | 2.0E+02                              | 1.2E-01                                       | 1.2E+01                                           | 7.3E-03                                       | 7.3E-01                                           |
| Nitrophenol, 2-                | 88-75-5    | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Nitrophenol, 3-                | 554-84-7   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Nitrophenol, 4-                | 100-02-7   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Nitropropane, 2-               | 79-46-9    | 7.0E-05                                         | —                                   | —                                    | 2.9E-02                                         | 1.4E+02                             | —                                    | —                                             | —                                                 | 1.0E-02                                       | 1.0E+00                                           |
| Nitroquinoline-N-oxide, 4-     | 56-57-5    | 1.5E-05                                         | 3.0E+00                             | 6.1E+00                              | —                                               | —                                   | —                                    | 2.2E-04                                       | 2.2E-02                                           | —                                             | —                                                 |
| Nitrosodiethanolamine          | 1116-54-7  | —                                               | 1.0E+01                             | 2.0E+01                              | —                                               | —                                   | —                                    | 7.3E-04                                       | 7.3E-02                                           | —                                             | —                                                 |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                 | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|-------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                     |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                     |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Nitrosodiethylamine, n-             | 55-18-5    | 9.5E-07                                         | 1.9E-01                             | —                                    | —                                               | —                                   | —                                    | 1.4E-05                                       | 1.4E-03                                           | —                                             | —                                                 |
| Nitrosodimethylamine, n-            | 62-75-9    | 2.9E-06                                         | 5.6E-01                             | —                                    | 5.8E-05                                         | 8.2E+00                             | —                                    | 4.0E-05                                       | 4.0E-03                                           | 5.8E-04                                       | 5.8E-02                                           |
| Nitrosodi-n-butylamine, n-          | 924-16-3   | 2.6E-05                                         | 5.3E+00                             | 1.1E+01                              | —                                               | —                                   | —                                    | 3.8E-04                                       | 3.8E-02                                           | —                                             | —                                                 |
| Nitrosodi-n-propylamine, n-         | 621-64-7   | —                                               | 4.1E+00                             | 2.0E+00                              | —                                               | —                                   | —                                    | 2.9E-04                                       | 2.9E-02                                           | —                                             | —                                                 |
| Nitrosodiphenylamine                | 86-30-6    | —                                               | 5.8E+03                             | 2.9E+03                              | —                                               | —                                   | —                                    | 4.2E-01                                       | 4.2E+01                                           | —                                             | —                                                 |
| Nitroso-methyl-ethyl-amine, n-      | 10595-95-6 | —                                               | 1.3E+00                             | —                                    | —                                               | —                                   | —                                    | 9.3E-05                                       | 9.3E-03                                           | —                                             | —                                                 |
| Nitrosomorpholine, N-               | 59-89-2    | 2.2E-05                                         | 4.3E+00                             | 8.5E+00                              | —                                               | —                                   | —                                    | 3.1E-04                                       | 3.1E-02                                           | —                                             | —                                                 |
| Nitroso-n-ethylurea, n-             | 759-73-9   | —                                               | 2.0E-01                             | 4.1E-01                              | —                                               | —                                   | —                                    | 1.5E-05                                       | 1.5E-03                                           | —                                             | —                                                 |
| Nitrosopiperidine, N-               | 100-75-4   | 1.5E-05                                         | 3.0E+00                             | 6.1E+00                              | —                                               | —                                   | —                                    | 2.2E-04                                       | 2.2E-02                                           | —                                             | —                                                 |
| Nitrosopyrrolidine, n-              | 930-55-2   | 6.7E-05                                         | 1.4E+01                             | 2.7E+01                              | —                                               | —                                   | —                                    | 9.7E-04                                       | 9.7E-02                                           | —                                             | —                                                 |
| Nitrotoluene, m-                    | 99-08-1    | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | 2.0E+04                              | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Nitrotoluene, o-                    | 88-72-2    | —                                               | 1.3E+02                             | 2.6E+02                              | —                                               | 9.2E+02                             | 1.8E+03                              | 9.3E-03                                       | 9.3E-01                                           | 6.6E-02                                       | 6.6E+00                                           |
| Nitrotoluene, p-                    | 99-99-0    | —                                               | 1.8E+03                             | 3.6E+03                              | —                                               | 4.1E+03                             | 8.2E+03                              | 1.3E-01                                       | 1.3E+01                                           | 2.9E-01                                       | 2.9E+01                                           |
| Nonachlor, cis-                     | 5103-73-1  | 4.1E-04                                         | 8.2E+01                             | 1.6E+02                              | 1.0E-03                                         | 5.1E+02                             | 1.0E+03                              | 5.8E-03                                       | 5.8E-01                                           | 3.7E-02                                       | 3.7E+00                                           |
| Nonachlor, trans-                   | 39765-80-5 | 4.1E-04                                         | 8.2E+01                             | 1.6E+02                              | 1.0E-03                                         | 5.1E+02                             | 1.0E+03                              | 5.8E-03                                       | 5.8E-01                                           | 3.7E-02                                       | 3.7E+00                                           |
| Nonanal                             | 124-19-6   | —                                               | —                                   | —                                    | —                                               | 2.0E+05                             | 4.1E+05                              | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Nonene, 1-n                         | 124-11-8   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Nonylphenol, 4-n-                   | 104-40-5   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Nonylphenol ethoxylate              | 9016-45-9  | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Octamethylpyrophosphoramidate       | 152-16-9   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Octanone                            | 106-68-3   | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Oxamyl                              | 23135-22-0 | —                                               | —                                   | —                                    | —                                               | 2.6E+04                             | 5.1E+04                              | —                                             | —                                                 | 1.8E+00                                       | 1.8E+02                                           |
| Oxychlorane                         | 27304-13-8 | 4.1E-04                                         | 8.2E+01                             | 1.6E+02                              | 1.0E-03                                         | 5.1E+02                             | 1.0E+03                              | 5.8E-03                                       | 5.8E-01                                           | 3.7E-02                                       | 3.7E+00                                           |
| Paraquat                            | 1910-42-5  | —                                               | —                                   | —                                    | —                                               | 4.6E+03                             | 9.2E+03                              | —                                             | —                                                 | 3.3E-01                                       | 3.3E+01                                           |
| Parathion (ethyl parathion)         | 56-38-2    | —                                               | —                                   | —                                    | —                                               | 6.1E+03                             | 1.2E+04                              | —                                             | —                                                 | 4.4E-01                                       | 4.4E+01                                           |
| Pebulate                            | 1114-71-2  | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Pendimethalin                       | 40487-42-1 | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | 8.2E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Pentachlorobenzene                  | 608-93-5   | —                                               | —                                   | —                                    | —                                               | 8.2E+02                             | 1.6E+03                              | —                                             | —                                                 | 5.8E-02                                       | 5.8E+00                                           |
| Pentachloroethane                   | 76-01-7    | 5.5E-03                                         | 3.2E+02                             | —                                    | —                                               | 3.1E+04                             | —                                    | 2.3E-02                                       | 2.3E+00                                           | 2.2E+00                                       | 2.2E+02                                           |
| Pentachloronitrobenzene             | 82-68-8    | —                                               | 1.1E+02                             | 2.2E+02                              | —                                               | 3.1E+03                             | 6.1E+03                              | 7.9E-03                                       | 7.9E-01                                           | 2.2E-01                                       | 2.2E+01                                           |
| Pentachlorophenol                   | 87-86-5    | —                                               | 7.2E+01                             | 5.7E+01                              | —                                               | 5.1E+03                             | 4.1E+03                              | 5.1E-03                                       | 5.1E-01                                           | 3.7E-01                                       | 3.7E+01                                           |
| Pentadiene, 1,3-cis-                | 1574-41-0  | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Pentadiene, 1,3-trans-              | 2004-70-8  | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Pentaerythritol tetranitrate (PETN) | 78-11-5    | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                              | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|----------------------------------------------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                                                  |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                                                  |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Pentane                                                                          | 109-66-0   | —                                               | —                                   | —                                    | 3.5E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Pentane, 2-methyl-                                                               | 107-83-5   | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Pentane, 3-methyl-                                                               | 96-14-0    | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Pentanediol, 1,5-                                                                | 111-29-5   | —                                               | —                                   | —                                    | 2.7E+01                                         | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+02                                       | 3.7E+04                                           |
| Pentanol, 1-                                                                     | 71-41-0    | —                                               | —                                   | —                                    | —                                               | 3.4E+04                             | —                                    | —                                             | —                                                 | 2.4E+00                                       | 2.4E+02                                           |
| Pentanol, 4-methyl-2-                                                            | 108-11-2   | —                                               | —                                   | —                                    | —                                               | 2.7E+04                             | —                                    | —                                             | —                                                 | 1.9E+00                                       | 1.9E+02                                           |
| Pentanone, 2-                                                                    | 107-87-9   | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Pentene, 2-                                                                      | 109-68-2   | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Pentyne, 1-                                                                      | 627-19-0   | —                                               | —                                   | —                                    | 2.6E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| Perchlorate                                                                      | 14797-73-0 | —                                               | —                                   | —                                    | —                                               | 7.2E+02                             | 2.9E+03                              | —                                             | —                                                 | 5.1E-02                                       | 5.1E+00                                           |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | —                                               | —                                   | —                                    | 1.2E-04                                         | 2.4E+01                             | 4.7E+01                              | —                                             | —                                                 | 1.7E-03                                       | 1.7E-01                                           |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDa]               | 2058-94-8  | —                                               | —                                   | —                                    | —                                               | 1.2E+01                             | 2.5E+01                              | —                                             | —                                                 | 8.8E-04                                       | 8.8E-02                                           |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                    | 2706-90-3  | —                                               | —                                   | —                                    | —                                               | 5.1E+02                             | 1.0E+03                              | —                                             | —                                                 | 3.7E-02                                       | 3.7E+00                                           |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                    | 307-24-4   | —                                               | —                                   | —                                    | —                                               | 5.1E+02                             | 1.0E+03                              | —                                             | —                                                 | 3.7E-02                                       | 3.7E+00                                           |
| Perfluorododecanoic acid (Dodecanoic acid, tricosfluoro-) [PFDoA]                | 307-55-1   | —                                               | —                                   | —                                    | 6.1E-05                                         | 1.2E+01                             | 2.5E+01                              | —                                             | —                                                 | 8.8E-04                                       | 8.8E-02                                           |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                  | 335-67-1   | —                                               | —                                   | —                                    | 6.0E-06                                         | 1.2E+01                             | 2.5E+01                              | —                                             | —                                                 | 8.8E-04                                       | 8.8E-02                                           |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                   | 335-76-2   | —                                               | —                                   | —                                    | 7.7E-05                                         | 1.5E+01                             | 3.1E+01                              | —                                             | —                                                 | 1.1E-03                                       | 1.1E-01                                           |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafluoro-) [PFDS]   | 335-77-3   | —                                               | —                                   | —                                    | —                                               | 1.2E+01                             | 2.5E+01                              | —                                             | —                                                 | 8.8E-04                                       | 8.8E-02                                           |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS]    | 355-46-4   | —                                               | —                                   | —                                    | 1.9E-05                                         | 3.9E+00                             | 7.8E+00                              | —                                             | —                                                 | 2.8E-04                                       | 2.8E-02                                           |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                       | 375-22-4   | —                                               | —                                   | —                                    | 5.1E-03                                         | 1.0E+03                             | 2.0E+03                              | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]        | 375-73-5   | —                                               | —                                   | —                                    | 7.2E-03                                         | 1.4E+03                             | 2.9E+03                              | —                                             | —                                                 | 1.0E-01                                       | 1.0E+01                                           |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]                 | 375-85-9   | —                                               | —                                   | —                                    | —                                               | 2.4E+01                             | 4.7E+01                              | —                                             | —                                                 | 1.7E-03                                       | 1.7E-01                                           |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]                  | 375-95-1   | —                                               | —                                   | —                                    | 4.1E-05                                         | 1.2E+01                             | 2.5E+01                              | —                                             | —                                                 | 8.8E-04                                       | 8.8E-02                                           |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosfluoro-) [PFTeDA]       | 376-06-7   | —                                               | —                                   | —                                    | —                                               | 1.2E+01                             | 2.5E+01                              | —                                             | —                                                 | 8.8E-04                                       | 8.8E-02                                           |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosfluoro-) [PFTTrDA]          | 72629-94-8 | —                                               | —                                   | —                                    | —                                               | 1.2E+01                             | 2.5E+01                              | —                                             | —                                                 | 8.8E-04                                       | 8.8E-02                                           |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA]      | 754-91-6   | —                                               | —                                   | —                                    | 6.0E-06                                         | 1.2E+01                             | 2.5E+01                              | —                                             | —                                                 | 8.8E-04                                       | 8.8E-02                                           |
| Perylene                                                                         | 198-55-0   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Phenacetin                                                                       | 62-44-2    | 6.5E-02                                         | 1.3E+04                             | 2.6E+04                              | —                                               | —                                   | —                                    | 9.3E-01                                       | 9.3E+01                                           | —                                             | —                                                 |
| Phenanthrene                                                                     | 85-01-8    | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 4.7E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                           | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|-----------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                               |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                               |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Phenanthridine                                | 229-87-8   | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Phenol                                        | 108-95-2   | —                                               | —                                   | —                                    | 1.6E-02                                         | 3.1E+05                             | 6.1E+05                              | —                                             | —                                                 | 2.2E+01                                       | 2.2E+03                                           |
| Phenol, 4-tert-butyl-                         | 98-54-4    | —                                               | —                                   | —                                    | —                                               | 1.2E+05                             | 2.5E+05                              | —                                             | —                                                 | 8.8E+00                                       | 8.8E+02                                           |
| Phenothiazine                                 | 92-84-2    | —                                               | —                                   | —                                    | —                                               | 1.1E+03                             | 2.2E+03                              | —                                             | —                                                 | 8.0E-02                                       | 8.0E+00                                           |
| Phenyl mercuric acetate                       | 62-38-4    | —                                               | —                                   | —                                    | —                                               | 8.2E+01                             | 1.6E+02                              | —                                             | —                                                 | 5.8E-03                                       | 5.8E-01                                           |
| Phenylene diamine, m-                         | 108-45-2   | —                                               | —                                   | —                                    | —                                               | 6.1E+03                             | 1.2E+04                              | —                                             | —                                                 | 4.4E-01                                       | 4.4E+01                                           |
| Phenylene diamine, p-                         | 106-50-3   | —                                               | —                                   | —                                    | —                                               | 1.9E+05                             | 3.9E+05                              | —                                             | —                                                 | 1.4E+01                                       | 1.4E+03                                           |
| Phorate                                       | 298-02-2   | —                                               | —                                   | —                                    | —                                               | 2.0E+02                             | 4.1E+02                              | —                                             | —                                                 | 1.5E-02                                       | 1.5E+00                                           |
| Phosalone                                     | 2310-17-0  | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Phosdrin (mevinphos)                          | 7786-34-7  | —                                               | —                                   | —                                    | —                                               | 2.6E+01                             | 5.1E+01                              | —                                             | —                                                 | 1.8E-03                                       | 1.8E-01                                           |
| Phosmet                                       | 732-11-6   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Phosphine                                     | 7803-51-2  | —                                               | —                                   | —                                    | 4.4E-04                                         | 3.1E+02                             | 1.2E+03                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Phosphorotrithioic acid, S,S,S-tributyl ester | 78-48-8    | —                                               | 3.4E+02                             | 6.8E+02                              | —                                               | 5.1E+02                             | 1.0E+03                              | 2.4E-02                                       | 2.4E+00                                           | 3.7E-02                                       | 3.7E+00                                           |
| Phosphorus, total*                            | 7723-14-0  | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Phosphorus, white                             | 7723-14-0  | —                                               | —                                   | —                                    | —                                               | 2.0E+01                             | 8.2E+01                              | —                                             | —                                                 | 1.5E-03                                       | 1.5E-01                                           |
| Phthalic anhydride                            | 85-44-9    | —                                               | —                                   | —                                    | 1.8E-01                                         | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Picloram                                      | 1918-02-1  | —                                               | —                                   | —                                    | —                                               | 7.2E+04                             | 1.4E+05                              | —                                             | —                                                 | 5.1E+00                                       | 5.1E+02                                           |
| Picoline, 2- (2-methylpyridine)               | 109-06-8   | —                                               | —                                   | —                                    | —                                               | 9.2E+03                             | —                                    | —                                             | —                                                 | 6.6E-01                                       | 6.6E+01                                           |
| Polybrominated biphenyls (PBBs)               | 67774-32-7 | —                                               | 3.2E+00                             | 6.4E+00                              | —                                               | 7.2E+00                             | 1.4E+01                              | 2.3E-04                                       | 2.3E-02                                           | 5.1E-04                                       | 5.1E-02                                           |
| Polychlorinated biphenyls (PCBs)              | 1336-36-3  | 7.2E-05                                         | 1.4E+01                             | 2.0E+01                              | —                                               | 2.0E+01                             | 2.9E+01                              | 1.0E-03                                       | 1.0E-01                                           | 1.5E-03                                       | 1.5E-01                                           |
| Potassium*                                    | 7440-09-7  | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Primene                                       | 68955-53-3 | —                                               | —                                   | —                                    | —                                               | 6.1E+03                             | 1.2E+04                              | —                                             | —                                                 | 4.4E-01                                       | 4.4E+01                                           |
| Prometon (pramitol)                           | 1610-18-0  | —                                               | —                                   | —                                    | —                                               | 1.5E+04                             | 3.1E+04                              | —                                             | —                                                 | 1.1E+00                                       | 1.1E+02                                           |
| Prometryn                                     | 7287-19-6  | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | 8.2E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Pronamide                                     | 23950-58-5 | —                                               | —                                   | —                                    | —                                               | 7.7E+04                             | 1.5E+05                              | —                                             | —                                                 | 5.5E+00                                       | 5.5E+02                                           |
| Propanal (propionaldehyde)                    | 123-38-6   | —                                               | —                                   | —                                    | 1.2E-02                                         | 8.2E+03                             | —                                    | —                                             | —                                                 | 5.8E-01                                       | 5.8E+01                                           |
| Propane, 1-bromo-                             | 106-94-5   | —                                               | —                                   | —                                    | —                                               | 3.7E+04                             | —                                    | —                                             | —                                                 | 2.6E+00                                       | 2.6E+02                                           |
| Propanil                                      | 709-98-8   | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 1.0E+04                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Propanoic acid (propionic acid)               | 79-09-4    | —                                               | —                                   | —                                    | —                                               | 5.1E+05                             | —                                    | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Propanol, 1-                                  | 71-23-8    | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | —                                    | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Propargite                                    | 2312-35-8  | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Propargyl alcohol                             | 107-19-7   | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | —                                    | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Propazine                                     | 139-40-2   | —                                               | 6.4E+02                             | 1.3E+03                              | —                                               | 2.0E+04                             | 4.1E+04                              | 4.6E-02                                       | 4.6E+00                                           | 1.5E+00                                       | 1.5E+02                                           |
| Propham                                       | 122-42-9   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern               | CAS         | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|-----------------------------------|-------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                   |             | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                   |             | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Propionitrile (propane nitrile)   | 107-12-0    | —                                               | —                                   | —                                    | —                                               | 4.1E+02                             | —                                    | —                                             | —                                                 | 2.9E-02                                       | 2.9E+00                                           |
| Propyl acetate, n-                | 109-60-4    | —                                               | —                                   | —                                    | —                                               | 9.2E+04                             | —                                    | —                                             | —                                                 | 6.6E+00                                       | 6.6E+02                                           |
| Propylbenzene, n-                 | 103-65-1    | —                                               | —                                   | —                                    | 5.8E-01                                         | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Propylene glycol                  | 57-55-6     | —                                               | —                                   | —                                    | 4.4E-03                                         | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.5E+03                                       | 1.5E+05                                           |
| Propylene glycol monomethyl ether | 107-98-2    | —                                               | —                                   | —                                    | 2.9E+00                                         | 7.2E+05                             | —                                    | —                                             | —                                                 | 5.1E+01                                       | 5.1E+03                                           |
| Propylene oxide                   | 75-56-9     | 1.1E-02                                         | 1.2E+02                             | —                                    | 4.4E-02                                         | —                                   | —                                    | 8.5E-03                                       | 8.5E-01                                           | —                                             | —                                                 |
| Propylene tetramer                | 6842-15-5   | —                                               | —                                   | —                                    | 1.5E+00                                         | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Prothiofos (Tokuthion)            | 34643-46-4  | —                                               | —                                   | —                                    | —                                               | 1.0E+02                             | 2.0E+02                              | —                                             | —                                                 | 7.3E-03                                       | 7.3E-01                                           |
| Pyrene                            | 129-00-0    | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 4.7E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Pyridine                          | 110-86-1    | —                                               | —                                   | —                                    | —                                               | 1.0E+03                             | —                                    | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Quinoline                         | 91-22-5     | —                                               | 9.5E+00                             | 1.9E+01                              | —                                               | —                                   | —                                    | 6.8E-04                                       | 6.8E-02                                           | —                                             | —                                                 |
| Ronnel                            | 299-84-3    | —                                               | —                                   | —                                    | —                                               | 5.1E+04                             | 1.0E+05                              | —                                             | —                                                 | 3.7E+00                                       | 3.7E+02                                           |
| Safrole                           | 94-59-7     | 6.5E-04                                         | 1.3E+02                             | 2.6E+02                              | —                                               | —                                   | —                                    | 9.3E-03                                       | 9.3E-01                                           | —                                             | —                                                 |
| Selenium                          | 7782-49-2   | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 1.0E+05                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Selenourea                        | 630-10-4    | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | —                                    | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Silver                            | 7440-22-4   | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 4.1E+03                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Simazine                          | 122-34-9    | —                                               | 2.4E+02                             | 4.8E+02                              | —                                               | 5.1E+03                             | 1.0E+04                              | 1.7E-02                                       | 1.7E+00                                           | 3.7E-01                                       | 3.7E+01                                           |
| Sodium*                           | 7440-23-5   | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Sodium hypochlorite               | 7681-52-9   | —                                               | —                                   | —                                    | 4.5E-04                                         | 2.1E+05                             | 8.6E+05                              | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Sodium polyacrylate               | 9003-04-7   | —                                               | —                                   | —                                    | 1.5E-03                                         | 5.1E+05                             | —                                    | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Strontium                         | 7440-24-6   | —                                               | —                                   | —                                    | —                                               | 6.1E+05                             | 1.0E+06                              | —                                             | —                                                 | 4.4E+01                                       | 4.4E+03                                           |
| Strychnine                        | 57-24-9     | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Styrene                           | 100-42-5    | —                                               | —                                   | —                                    | 6.9E-01                                         | 2.0E+05                             | —                                    | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Sulfate*                          | 14808-79-8  | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Sulfide*                          | 18496-25-8  | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Sulfolane                         | 126-33-0    | —                                               | —                                   | —                                    | 9.3E-03                                         | 1.3E+04                             | 2.7E+04                              | —                                             | —                                                 | 9.5E-01                                       | 9.5E+01                                           |
| Sulfur*                           | 7704-34-9   | —                                               | —                                   | —                                    | —                                               | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Sulprofos (Bolstar)               | 35400-43-2  | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Tebuconazole                      | 107534-96-3 | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Tebuthiuron                       | 34014-18-1  | —                                               | —                                   | —                                    | —                                               | 7.2E+04                             | 1.4E+05                              | —                                             | —                                                 | 5.1E+00                                       | 5.1E+02                                           |
| Terbufos                          | 13071-79-9  | —                                               | —                                   | —                                    | —                                               | 2.6E+01                             | 5.1E+01                              | —                                             | —                                                 | 1.8E-03                                       | 1.8E-01                                           |
| Tert-amyl ethyl ether (TAEE)      | 919-94-8    | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                       | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|-------------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                           |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                           |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Tert-amyl-methyl ether (TAME)             | 994-05-8   | —                                               | —                                   | —                                    | —                                               | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0    | —                                               | —                                   | —                                    | 1.2E+01                                         | 7.2E+05                             | —                                    | —                                             | —                                                 | 5.1E+01                                       | 5.1E+03                                           |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2   | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2   | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3    | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6   | 5.5E-03                                         | 1.1E+03                             | —                                    | —                                               | 3.1E+04                             | —                                    | 7.9E-02                                       | 7.9E+00                                           | 2.2E+00                                       | 2.2E+02                                           |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5    | —                                               | 1.4E+02                             | —                                    | —                                               | 2.0E+04                             | —                                    | 1.0E-02                                       | 1.0E+00                                           | 1.5E+00                                       | 1.5E+02                                           |
| Tetrachloroethylene [PCE]                 | 127-18-4   | 1.1E-01                                         | 1.4E+04                             | —                                    | 5.4E-01                                         | 2.1E+04                             | —                                    | 9.7E-01                                       | 9.7E+01                                           | 1.5E+00                                       | 1.5E+02                                           |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3  | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2    | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5   | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Tetrachlorvinphos (Stirophos)             | 22248-79-9 | —                                               | —                                   | —                                    | —                                               | 4.3E+04                             | 8.6E+04                              | —                                             | —                                                 | 3.1E+00                                       | 3.1E+02                                           |
| Tetradifon                                | 116-29-0   | —                                               | —                                   | —                                    | —                                               | 2.0E+04                             | 4.1E+04                              | —                                             | —                                                 | 1.5E+00                                       | 1.5E+02                                           |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5  | —                                               | —                                   | —                                    | —                                               | 5.1E+02                             | 1.0E+03                              | —                                             | —                                                 | 3.7E-02                                       | 3.7E+00                                           |
| Tetraethyl lead                           | 78-00-2    | —                                               | —                                   | —                                    | —                                               | 1.0E-01                             | 2.0E-01                              | —                                             | —                                                 | 7.3E-06                                       | 7.3E-04                                           |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3   | —                                               | —                                   | —                                    | —                                               | 1.1E+01                             | 2.2E+01                              | —                                             | —                                                 | 8.0E-04                                       | 8.0E-02                                           |
| Tetraethylene glycol                      | 112-60-7   | —                                               | —                                   | —                                    | —                                               | 3.4E+05                             | 6.7E+05                              | —                                             | —                                                 | 2.4E+01                                       | 2.4E+03                                           |
| Tetrahydrofuran                           | 109-99-9   | 2.2E-02                                         | 3.8E+03                             | —                                    | 2.9E+00                                         | 9.2E+05                             | —                                    | 2.7E-01                                       | 2.7E+01                                           | 6.6E+01                                       | 6.6E+03                                           |
| Tetrahydropyran                           | 142-68-7   | 2.2E-02                                         | 3.8E+03                             | —                                    | —                                               | 2.0E+05                             | —                                    | 2.7E-01                                       | 2.7E+01                                           | 1.5E+01                                       | 1.5E+03                                           |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2   | —                                               | —                                   | —                                    | —                                               | 2.6E+04                             | 5.1E+04                              | —                                             | —                                                 | 1.8E+00                                       | 1.8E+02                                           |
| Thallium                                  | 7440-28-0  | —                                               | —                                   | —                                    | —                                               | 6.8E+01                             | 1.4E+03                              | —                                             | —                                                 | 4.9E-03                                       | 4.9E-01                                           |
| Thiofanox                                 | 39196-18-4 | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Thionazin                                 | 297-97-2   | —                                               | —                                   | —                                    | —                                               | 7.2E+01                             | 1.4E+02                              | —                                             | —                                                 | 5.1E-03                                       | 5.1E-01                                           |
| Thiophanate-methyl                        | 23564-05-8 | —                                               | —                                   | —                                    | —                                               | 8.2E+04                             | 1.6E+05                              | —                                             | —                                                 | 5.8E+00                                       | 5.8E+02                                           |
| Thiram                                    | 137-26-8   | —                                               | —                                   | —                                    | —                                               | 5.1E+03                             | 1.0E+04                              | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Tin                                       | 7440-31-5  | —                                               | —                                   | —                                    | —                                               | 6.1E+05                             | 1.0E+06                              | —                                             | —                                                 | 4.4E+01                                       | 4.4E+03                                           |
| Titanium                                  | 7440-32-6  | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+02                                       | 3.7E+04                                           |
| Toluene                                   | 108-88-3   | —                                               | —                                   | —                                    | 6.0E+00                                         | 8.2E+04                             | —                                    | —                                             | —                                                 | 5.8E+00                                       | 5.8E+02                                           |
| Toluene diisocyanate, 2,4/2,6-            | 26471-62-5 | —                                               | —                                   | —                                    | 1.0E-04                                         | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Toluenediamine, 2,4-                      | 95-80-7    | —                                               | 8.9E+00                             | 1.8E+01                              | —                                               | —                                   | —                                    | 6.4E-04                                       | 6.4E-02                                           | —                                             | —                                                 |
| Toluenediamine, 2,6-                      | 823-40-5   | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Toluidine, o-                             | 95-53-4    | 8.0E-04                                         | 1.8E+03                             | 2.4E+02                              | —                                               | —                                   | —                                    | 1.3E-01                                       | 1.3E+01                                           | —                                             | —                                                 |
| Toluidine, p-                             | 106-49-0   | —                                               | 9.5E+02                             | 3.0E+02                              | —                                               | —                                   | —                                    | 6.8E-02                                       | 6.8E+00                                           | —                                             | —                                                 |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                     | CAS        | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|-----------------------------------------|------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                         |            | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                         |            | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Toxaphene                               | 8001-35-2  | 1.3E-04                                         | 2.6E+01                             | 5.2E+01                              | —                                               | 3.2E+02                             | 6.3E+02                              | 1.9E-03                                       | 1.9E-01                                           | 2.3E-02                                       | 2.3E+00                                           |
| TPH, TX1005, C6-C12                     | TPH-1005-1 | —                                               | —                                   | —                                    | 2.9E-01                                         | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| TPH, TX1005, >C12-C28                   | TPH-1005-2 | —                                               | —                                   | —                                    | 2.9E-01                                         | 4.1E+04                             | 8.2E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| TPH, TX1005, >C12-C35                   | TPH-1005-3 | —                                               | —                                   | —                                    | 2.9E-01                                         | 4.1E+04                             | 8.2E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| TPH, TX1005, >C28-C35                   | TPH-1005-4 | —                                               | —                                   | —                                    | 2.9E-01                                         | 4.1E+04                             | 8.2E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| TP Silvex, 2,4,5-                       | 93-72-1    | —                                               | —                                   | —                                    | —                                               | 8.2E+03                             | 1.6E+04                              | —                                             | —                                                 | 5.8E-01                                       | 5.8E+01                                           |
| Triademenol                             | 55219-65-3 | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Triallate                               | 2303-17-5  | —                                               | —                                   | —                                    | —                                               | 1.3E+04                             | 2.7E+04                              | —                                             | —                                                 | 9.5E-01                                       | 9.5E+01                                           |
| Triaminotrinitrobenzene (TATB)          | 3058-38-6  | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Tributyltin oxide                       | 56-35-9    | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Trichloro-1,2,2-trifluoroethane, 1,1,2- | 76-13-1    | —                                               | —                                   | —                                    | 7.3E+00                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 2.2E+03                                       | 2.2E+05                                           |
| Trichlorobenzene, 1,2,3-                | 87-61-6    | —                                               | —                                   | —                                    | 2.9E-03                                         | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Trichlorobenzene, 1,2,4-                | 120-82-1   | —                                               | 9.9E+02                             | 2.0E+03                              | 2.9E-03                                         | 1.0E+04                             | 2.0E+04                              | 7.0E-02                                       | 7.0E+00                                           | 7.3E-01                                       | 7.3E+01                                           |
| Trichlorobenzene, 1,3,5-                | 108-70-3   | —                                               | —                                   | —                                    | 2.9E-03                                         | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Trichloroethane, 1,1,1-                 | 71-55-6    | —                                               | —                                   | —                                    | 7.4E+00                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Trichloroethane, 1,1,2-                 | 79-00-5    | 2.6E-03                                         | 5.0E+02                             | —                                    | —                                               | 4.1E+03                             | —                                    | 3.6E-02                                       | 3.6E+00                                           | 2.9E-01                                       | 2.9E+01                                           |
| Trichloroethylene [TCE]                 | 79-01-6    | 1.0E-02                                         | 6.2E+02                             | —                                    | 2.9E-03                                         | 5.1E+02                             | —                                    | 4.4E-02                                       | 4.4E+00                                           | 3.7E-02                                       | 3.7E+00                                           |
| Trichlorofluoromethane                  | 75-69-4    | —                                               | —                                   | —                                    | —                                               | 3.1E+05                             | —                                    | —                                             | —                                                 | 2.2E+01                                       | 2.2E+03                                           |
| Trichloronate                           | 327-98-0   | —                                               | —                                   | —                                    | —                                               | 3.1E+03                             | 6.1E+03                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Trichlorophenol, 2,3,4-                 | 15950-66-0 | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Trichlorophenol, 2,3,5-                 | 933-78-8   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Trichlorophenol, 2,3,6-                 | 933-75-5   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Trichlorophenol, 2,4,5-                 | 95-95-4    | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Trichlorophenol, 2,4,6-                 | 88-06-2    | 1.3E-02                                         | 2.6E+03                             | 5.2E+03                              | —                                               | 1.0E+03                             | 2.0E+03                              | 1.9E-01                                       | 1.9E+01                                           | 7.3E-02                                       | 7.3E+00                                           |
| Trichlorophenol, 3,4,5-                 | 609-19-8   | —                                               | —                                   | —                                    | —                                               | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| Trichlorophenoxyacetic acid, 2,4,5-     | 93-76-5    | —                                               | —                                   | —                                    | —                                               | 1.0E+04                             | 2.0E+04                              | —                                             | —                                                 | 7.3E-01                                       | 7.3E+01                                           |
| Trichloropropane, 1,1,2-                | 598-77-6   | —                                               | —                                   | —                                    | 4.4E-04                                         | 5.1E+03                             | —                                    | —                                             | —                                                 | 3.7E-01                                       | 3.7E+01                                           |
| Trichloropropane, 1,2,3-                | 96-18-4    | —                                               | 9.5E-01                             | —                                    | 4.4E-04                                         | 4.1E+03                             | —                                    | 6.8E-05                                       | 6.8E-03                                           | 2.9E-01                                       | 2.9E+01                                           |
| Triethanolamine                         | 102-71-6   | —                                               | —                                   | —                                    | 3.7E-02                                         | 2.0E+05                             | 4.1E+05                              | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Triethylamine                           | 121-44-8   | —                                               | —                                   | —                                    | 1.0E-02                                         | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Triethylene glycol                      | 112-27-6   | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Triethylphosphorothioate, O, O, O-      | 126-68-1   | —                                               | —                                   | —                                    | —                                               | 8.5E+00                             | 1.7E+01                              | —                                             | —                                                 | 6.1E-04                                       | 6.1E-02                                           |
| Trifluralin                             | 1582-09-8  | —                                               | 3.7E+03                             | 7.4E+03                              | —                                               | 7.7E+03                             | 1.5E+04                              | 2.7E-01                                       | 2.7E+01                                           | 5.5E-01                                       | 5.5E+01                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                   | CAS       | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|-----------------------------------------------------------------------|-----------|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                                       |           | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                                       |           | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| Trimethylamine                                                        | 75-50-3   | —                                               | —                                   | —                                    | 1.0E-02                                         | —                                   | —                                    | —                                             | —                                                 | —                                             | —                                                 |
| Trimethylbenzene, 1,2,3-                                              | 526-73-8  | —                                               | —                                   | —                                    | 2.6E-01                                         | 3.5E+04                             | —                                    | —                                             | —                                                 | 2.5E+00                                       | 2.5E+02                                           |
| Trimethylbenzene, 1,2,4-                                              | 95-63-6   | —                                               | —                                   | —                                    | 2.6E-01                                         | 3.5E+04                             | —                                    | —                                             | —                                                 | 2.5E+00                                       | 2.5E+02                                           |
| Trimethylbenzene, 1,3,5-                                              | 108-67-8  | —                                               | —                                   | —                                    | 2.6E-01                                         | 3.5E+04                             | —                                    | —                                             | —                                                 | 2.5E+00                                       | 2.5E+02                                           |
| Trinitrobenzene, 1,3,5-                                               | 99-35-4   | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| Trinitrophenylmethylnitramine (tetryl; nitramine)                     | 479-45-8  | —                                               | —                                   | —                                    | —                                               | 2.0E+03                             | 8.2E+03                              | —                                             | —                                                 | 1.5E-01                                       | 1.5E+01                                           |
| Trinitrotoluene, 2,4,6-                                               | 118-96-7  | —                                               | 9.5E+02                             | 1.9E+03                              | —                                               | 5.1E+02                             | 1.0E+03                              | 6.8E-02                                       | 6.8E+00                                           | 3.7E-02                                       | 3.7E+00                                           |
| Tungsten (as sodium tungstate dihydride)                              | 7440-33-7 | —                                               | —                                   | —                                    | 7.7E-03                                         | 1.0E+03                             | 4.1E+03                              | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Uranium (soluble salts)                                               | 7440-61-1 | —                                               | —                                   | —                                    | 5.8E-05                                         | 3.1E+03                             | 6.1E+04                              | —                                             | —                                                 | 2.2E-01                                       | 2.2E+01                                           |
| Valeric acid (pentanoic acid)                                         | 109-52-4  | —                                               | —                                   | —                                    | 1.5E-03                                         | 5.1E+05                             | 1.0E+06                              | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Vanadium                                                              | 7440-62-2 | —                                               | —                                   | —                                    | 4.4E-05                                         | 1.8E+03                             | 9.6E+02                              | —                                             | —                                                 | 1.3E-01                                       | 1.3E+01                                           |
| Vernam                                                                | 1929-77-7 | —                                               | —                                   | —                                    | —                                               | 1.0E+03                             | 2.0E+03                              | —                                             | —                                                 | 7.3E-02                                       | 7.3E+00                                           |
| Vinyl acetate                                                         | 108-05-4  | —                                               | —                                   | —                                    | 2.9E-01                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 7.3E+01                                       | 7.3E+03                                           |
| Vinyl chloride                                                        | 75-01-4   | 4.9E-03                                         | 1.9E+01                             | —                                    | 8.8E-02                                         | 3.1E+03                             | —                                    | 1.4E-03                                       | 1.4E-01                                           | 2.2E-01                                       | 2.2E+01                                           |
| Vinylcyclohexane                                                      | 695-12-5  | —                                               | —                                   | —                                    | —                                               | 5.1E+05                             | —                                    | —                                             | —                                                 | 3.7E+01                                       | 3.7E+03                                           |
| Warfarin                                                              | 81-81-2   | —                                               | —                                   | —                                    | —                                               | 3.1E+02                             | 6.1E+02                              | —                                             | —                                                 | 2.2E-02                                       | 2.2E+00                                           |
| Xylene, m-                                                            | 108-38-3  | —                                               | —                                   | —                                    | 8.9E-01                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Xylene, o-                                                            | 95-47-6   | —                                               | —                                   | —                                    | 8.9E-01                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Xylene, p-                                                            | 106-42-3  | —                                               | —                                   | —                                    | 8.9E-01                                         | 1.0E+06                             | —                                    | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| Xylenes                                                               | 1330-20-7 | —                                               | —                                   | —                                    | 8.9E-01                                         | 2.0E+05                             | —                                    | —                                             | —                                                 | 1.5E+01                                       | 1.5E+03                                           |
| Zinc                                                                  | 7440-66-6 | —                                               | —                                   | —                                    | —                                               | 3.1E+05                             | 1.0E+06                              | —                                             | —                                                 | 2.2E+01                                       | 2.2E+03                                           |
| 6 C aliphatics (TPH) (>53% n-hexane content)                          | NA        | —                                               | —                                   | —                                    | 9.8E-01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| 6 C aliphatics (TPH) (<53% n-hexane content)                          | NA        | —                                               | —                                   | —                                    | 2.7E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)                       | NA        | —                                               | —                                   | —                                    | 9.8E-01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)                       | NA        | —                                               | —                                   | —                                    | 2.7E+01                                         | 6.1E+04                             | —                                    | —                                             | —                                                 | 4.4E+00                                       | 4.4E+02                                           |
| >8-10 C aliphatics (TPH)                                              | NA        | —                                               | —                                   | —                                    | 7.3E-01                                         | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| >10-12 C aliphatics (TPH)                                             | NA        | —                                               | —                                   | —                                    | 7.3E-01                                         | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| >12-16 C aliphatics (TPH)                                             | NA        | —                                               | —                                   | —                                    | 7.3E-01                                         | 1.0E+05                             | 2.0E+05                              | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| >16-21 C aliphatics (TPH)                                             | NA        | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only) | NA        | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.2E+02                                       | 1.2E+04                                           |
| >21-35 C aliphatics (TPH)                                             | NA        | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.5E+02                                       | 1.5E+04                                           |

**Table 10**  
**Individual RBELs Commercial/Industrial**

**Last Revised: February 6, 2025**

| Chemical of Concern                                                   | CAS | Soil                                            |                                     |                                      |                                                 |                                     |                                      | Groundwater                                   |                                                   |                                               |                                                   |
|-----------------------------------------------------------------------|-----|-------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                                                       |     | Carcinogenic                                    |                                     |                                      | Noncarcinogenic                                 |                                     |                                      | Carcinogenic                                  |                                                   | Noncarcinogenic                               |                                                   |
|                                                                       |     | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | Air RBEL <sub>Inh</sub><br>(mg/m <sup>3</sup> ) | Soil RBEL <sub>Ing</sub><br>(mg/kg) | Soil RBEL <sub>Derm</sub><br>(mg/kg) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) | GW RBEL <sub>Ing</sub> <sup>1</sup><br>(mg/L) | GW RBEL <sub>Class 3</sub> <sup>2</sup><br>(mg/L) |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only) | NA  | —                                               | —                                   | —                                    | —                                               | 1.0E+06                             | 1.0E+06                              | —                                             | —                                                 | 1.2E+02                                       | 1.2E+04                                           |
| >7-8 C aromatics (TPH)                                                | NA  | —                                               | —                                   | —                                    | 2.8E+00                                         | 1.0E+05                             | —                                    | —                                             | —                                                 | 7.3E+00                                       | 7.3E+02                                           |
| >8-10 C aromatics (TPH)                                               | NA  | —                                               | —                                   | —                                    | 2.9E-01                                         | 4.1E+04                             | —                                    | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| >10-12 C aromatics (TPH)                                              | NA  | —                                               | —                                   | —                                    | 2.9E-01                                         | 4.1E+04                             | 8.2E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| >12-16 C aromatics (TPH)                                              | NA  | —                                               | —                                   | —                                    | 2.9E-01                                         | 4.1E+04                             | 8.2E+04                              | —                                             | —                                                 | 2.9E+00                                       | 2.9E+02                                           |
| >16-21 C aromatics (TPH)                                              | NA  | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |
| >21-35 C aromatics (TPH)                                              | NA  | —                                               | —                                   | —                                    | —                                               | 3.1E+04                             | 6.1E+04                              | —                                             | —                                                 | 2.2E+00                                       | 2.2E+02                                           |

**Footnotes**

**1** Based on primary MCLs when available

**2** 100 x <sup>GW</sup>GW<sub>Ing</sub>

**3** The total MCL for trihalomethanes (bromodichloromethane, bromoform, chloroform, and dibromochloromethane) is 0.08 mg/L.

\* These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <http://www.tceq.state.tx.us/remediation/trrp/trrp.html>.

NA = not applicable

All values capped at 1E+06

This table shows the commercial and industrial risk-based exposure limits for soil and groundwater with carcinogenic and non-carcinogenic values depicted.

end of worksheet

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                           | CAS        | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-<br>day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-<br>day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|-----------------------------------------------|------------|--------------------|------------------|--------------------------------------|------------------|-------------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| Acenaphthene                                  | 83-32-9    | IIACP              | PPRTV            | —                                    | —                | 6.0E-02                 | I                | —                                         | —                | —                           | —                |
| Acenaphthylene                                | 208-96-8   | D                  | I                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | —                           | —                |
| Acetaldehyde                                  | 75-07-0    | B2                 | I                | —                                    | —                | 1.0E-01                 | T                | 2.2E-06                                   | I                | 9.0E-03                     | I                |
| Acetate, 2-ethoxyethanol                      | 111-15-9   | —                  | —                | —                                    | —                | 1.0E-01                 | PPRTV            | —                                         | —                | 6.0E-02                     | PPRTV            |
| Acetate, isoamyl                              | 123-92-2   | —                  | —                | —                                    | —                | 7.2E-02                 | T                | —                                         | —                | —                           | —                |
| Acetate, isobutyl                             | 110-19-0   | —                  | —                | —                                    | —                | 4.8E-02                 | T                | —                                         | —                | —                           | —                |
| Acetate, sec-butyl                            | 105-46-4   | —                  | —                | —                                    | —                | 4.8E-02                 | T                | —                                         | —                | —                           | —                |
| Acetic acid*                                  | 64-19-7    | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Acetone (2-propanone)                         | 67-64-1    | D                  | I                | —                                    | —                | 9.0E-01                 | I                | —                                         | —                | 3.1E+01                     | A                |
| Acetone cyanohydrin                           | 75-86-5    | IIACP              | PPRTV            | —                                    | —                | 3.0E-03                 | PPRTV            | —                                         | —                | 6.0E-02                     | PPRTV            |
| Acetonitrile                                  | 75-05-8    | D                  | I                | —                                    | —                | 3.2E-02                 | T                | —                                         | —                | 6.0E-02                     | I                |
| Acetophenone                                  | 98-86-2    | D                  | I                | —                                    | —                | 1.0E-01                 | I                | —                                         | —                | —                           | —                |
| Acetylaminofluorene, 2-                       | 53-96-3    | —                  | —                | 3.8E+00                              | OEHHA            | —                       | —                | 1.3E-03                                   | OEHHA            | —                           | —                |
| Acifluorfen, sodium                           | 62476-59-9 | —                  | —                | —                                    | —                | 1.3E-02                 | I                | —                                         | —                | —                           | —                |
| Acridine                                      | 260-94-6   | —                  | —                | —                                    | —                | 3.0E-03                 | T                | —                                         | —                | —                           | —                |
| Acrolein                                      | 107-02-8   | D                  | I                | —                                    | —                | 5.0E-04                 | I                | —                                         | —                | 2.7E-03                     | T                |
| Acrylamide                                    | 79-06-1    | LC                 | I                | 5.0E-01                              | I                | 2.0E-03                 | I                | 1.0E-04                                   | I                | 6.0E-03                     | I                |
| Acrylic acid                                  | 79-10-7    | —                  | —                | —                                    | —                | 5.0E-01                 | I                | —                                         | —                | 1.0E-03                     | I                |
| Acrylonitrile                                 | 107-13-1   | B1                 | I                | 5.4E-01                              | I                | 1.0E-03                 | H                | 6.8E-05                                   | I                | 2.0E-03                     | I                |
| Adipic acid (hexanedioic acid)                | 124-04-9   | —                  | —                | —                                    | —                | 2.0E+00                 | PPRTV            | —                                         | —                | —                           | —                |
| Alachlor                                      | 15972-60-8 | B2                 | H                | 8.0E-02                              | H                | 1.0E-02                 | I                | —                                         | —                | —                           | —                |
| Aldicarb                                      | 116-06-3   | D                  | I                | —                                    | —                | 1.0E-03                 | I                | —                                         | —                | —                           | —                |
| Aldicarb sulfone                              | 1646-88-4  | —                  | —                | —                                    | —                | 1.0E-03                 | I                | —                                         | —                | —                           | —                |
| Aldrin                                        | 309-00-2   | B2                 | I                | 1.7E+01                              | I                | 3.0E-05                 | I                | 4.9E-03                                   | I                | —                           | —                |
| Allyl alcohol                                 | 107-18-6   | —                  | —                | —                                    | —                | 5.0E-03                 | I                | —                                         | —                | 1.0E-04                     | PPRTV            |
| Allyl chloride                                | 107-05-1   | C                  | I                | —                                    | —                | 1.0E-02                 | I                | —                                         | —                | 1.0E-03                     | I                |
| Aluminum                                      | 7429-90-5  | —                  | —                | —                                    | —                | 1.0E+00                 | PPRTV            | —                                         | —                | 5.0E-03                     | PPRTV            |
| Ametrvn                                       | 834-12-8   | —                  | —                | —                                    | —                | 9.0E-03                 | I                | —                                         | —                | —                           | —                |
| Amino-2,6-dinitrotoluene, 4-                  | 19406-51-0 | —                  | —                | 3.0E-02                              | T                | 5.0E-04                 | T                | —                                         | —                | —                           | —                |
| Amino-4,6-dinitrotoluene, 2-                  | 35572-78-2 | —                  | —                | 3.0E-02                              | T                | 5.0E-04                 | T                | —                                         | —                | —                           | —                |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine)      | 92-67-1    | A                  | T                | 6.1E+00                              | T                | —                       | —                | —                                         | —                | —                           | —                |
| Aminopyridine, 4-                             | 504-24-5   | D                  | I                | —                                    | —                | 2.0E-05                 | H                | —                                         | —                | —                           | —                |
| Ammonia                                       | 7664-41-7  | IIACP              | T                | —                                    | —                | —                       | —                | —                                         | —                | 3.2E-01                     | T                |
| Ammonium polyphosphate*                       | 6833-79-9  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Ammonium salts*                               | NA         | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Aniline                                       | 62-53-3    | B2                 | I                | 5.7E-03                              | I                | 7.0E-03                 | N                | —                                         | —                | 1.0E-03                     | I                |
| Anthracene                                    | 120-12-7   | D                  | I                | —                                    | —                | 3.0E-01                 | I                | —                                         | —                | —                           | —                |
| Anthraquinone, 9,10-                          | 84-65-1    | LC                 | PPRTV            | 3.9E-02                              | PPRTV            | 2.0E-02                 | T                | —                                         | —                | —                           | —                |
| Antimony                                      | 7440-36-0  | —                  | —                | —                                    | —                | 4.0E-04                 | I                | —                                         | —                | —                           | —                |
| Aramite                                       | 140-57-8   | B2                 | I                | 2.5E-02                              | I                | 5.0E-02                 | H                | 7.1E-06                                   | I                | —                           | —                |
| Arsenic                                       | 7440-38-2  | A                  | I                | 1.5E+00                              | I                | 3.0E-04                 | I                | 1.5E-04                                   | T                | —                           | —                |
| Arsine                                        | 7784-42-1  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | 5.0E-05                     | I                |
| Atrazine                                      | 1912-24-9  | C                  | H                | 2.2E-01                              | H                | 3.5E-02                 | I                | —                                         | —                | —                           | —                |
| Azinphos-methyl (guthion)                     | 86-50-0    | —                  | —                | —                                    | —                | 1.5E-03                 | EPA –99          | —                                         | —                | —                           | —                |
| Azobenzene                                    | 103-33-3   | B2                 | I                | 1.1E-01                              | I                | —                       | —                | 3.1E-05                                   | I                | —                           | —                |
| Barium                                        | 7440-39-3  | D                  | I                | —                                    | —                | 2.0E-01                 | I                | —                                         | —                | —                           | —                |
| Bayleton                                      | 43121-43-3 | —                  | —                | —                                    | —                | 3.0E-02                 | I                | —                                         | —                | —                           | —                |
| Benefin (benfluralin)                         | 1861-40-1  | —                  | —                | —                                    | —                | 3.0E-01                 | I                | —                                         | —                | —                           | —                |
| Benomyl                                       | 17804-35-2 | —                  | I                | —                                    | —                | 5.0E-02                 | I                | —                                         | —                | —                           | —                |
| Benz-a-anthracene                             | 56-55-3    | CH                 | I                | 1.0E-01                              | EPA –93          | —                       | —                | 6.0E-05                                   | EPA –93          | —                           | —                |
| Benzaldehyde                                  | 100-52-7   | —                  | —                | —                                    | —                | 1.0E-01                 | I                | —                                         | —                | —                           | —                |
| Benzene                                       | 71-43-2    | A                  | I                | 1.5E-02                              | T                | 4.0E-03                 | I                | 2.2E-06                                   | T                | 2.8E-01                     | T                |
| Benzenedicarbonitrile, 1,3-                   | 626-17-5   | —                  | —                | —                                    | —                | 6.0E-03                 | T                | —                                         | —                | —                           | —                |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | —                  | —                | —                                    | —                | 4.0E-02                 | —                | —                                         | —                | 5.0E-03                     | —                |
| Benzenethiol                                  | 108-98-5   | —                  | —                | —                                    | —                | 1.0E-03                 | PPRTV            | —                                         | —                | —                           | —                |
| Benzidine                                     | 92-87-5    | A                  | I                | 2.3E+02                              | I                | 3.0E-03                 | I                | 6.7E-02                                   | I                | —                           | —                |
| Benzo-a-pyrene                                | 50-32-8    | CH                 | I                | 1.0E+00                              | I                | 3.0E-04                 | I                | 6.0E-04                                   | I                | 2.0E-06                     | I                |
| Benzo-b-fluoranthene                          | 205-99-2   | CH                 | I                | 1.0E-01                              | EPA –93          | —                       | —                | 6.0E-05                                   | EPA –93          | —                           | —                |
| Benzo-e-pyrene                                | 192-97-2   | —                  | —                | —                                    | —                | 3.0E-02                 | T                | —                                         | —                | —                           | —                |
| Benzo-g,h,i-perylene                          | 191-24-2   | D                  | I                | —                                    | —                | 3.0E-02                 | T                | —                                         | —                | —                           | —                |
| Benzoic acid                                  | 65-85-0    | D                  | I                | —                                    | —                | 4.0E+00                 | I                | —                                         | —                | —                           | —                |
| Benzo-j-fluoranthene                          | 205-82-3   | —                  | —                | 1.0E-01                              | T                | —                       | —                | 6.0E-05                                   | T                | —                           | —                |
| Benzo-k-fluoranthene                          | 207-08-9   | CH                 | I                | 1.0E-02                              | EPA –93          | —                       | —                | 6.0E-06                                   | EPA –93          | —                           | —                |
| Benzophenone                                  | 119-61-9   | —                  | —                | —                                    | —                | 6.7E-03                 | T                | —                                         | —                | —                           | —                |
| Benzotrichloride                              | 98-07-7    | B2                 | I                | 1.3E+01                              | I                | —                       | —                | —                                         | —                | —                           | —                |
| Benzoyl peroxide                              | 94-36-0    | —                  | —                | —                                    | —                | 5.0E-02                 | T                | —                                         | —                | —                           | —                |
| Benzyl alcohol                                | 100-51-6   | —                  | —                | —                                    | —                | 1.0E-01                 | PPRTV            | —                                         | —                | —                           | —                |
| Benzyl chloride                               | 100-44-7   | B2                 | I                | 1.7E-01                              | I                | 2.0E-03                 | PPRTV            | —                                         | —                | 1.0E-03                     | PPRTV            |
| Benzyl dichloride                             | 98-87-3    | B2                 | T                | 1.7E-01                              | T                | 2.0E-03                 | T                | —                                         | —                | 1.0E-03                     | T                |
| Beryllium                                     | 7440-41-7  | B1                 | I                | —                                    | —                | 2.0E-03                 | I                | 2.4E-03                                   | I                | 1.0E-06                     | A                |
| Biphenyl, 1,1-                                | 92-52-4    | SEC                | PPRTV            | —                                    | —                | 5.0E-01                 | I                | —                                         | —                | —                           | —                |
| Biphenyl, 1,1'-, 2-phenoxy-                   | 6738-04-1  | —                  | —                | —                                    | —                | 5.0E-02                 | T                | —                                         | —                | —                           | —                |
| Biquinoline, 2,2'-                            | 119-91-5   | —                  | —                | —                                    | —                | 3.0E-03                 | T                | —                                         | —                | —                           | —                |
| Bis (2-chloroethoxy) methane                  | 111-91-1   | B2                 | T                | 1.1E+00                              | T                | 3.0E-03                 | PPRTV            | 3.3E-04                                   | T                | —                           | —                |
| Bis (2-chloroethyl) ether                     | 111-44-4   | B2                 | I                | 1.1E+00                              | I                | —                       | —                | 3.3E-04                                   | I                | —                           | —                |
| Bis (2-chloro-1-methylethyl) ether            | 108-60-1   | C                  | H                | 7.0E-02                              | H                | 4.0E-02                 | H                | 1.0E-05                                   | H                | —                           | —                |
| Bis (2-chloromethyl) ether                    | 542-88-1   | A                  | I                | 2.2E+02                              | I                | —                       | —                | 6.2E-02                                   | I                | —                           | —                |
| Bis (2-ethyl-hexyl) phthalate                 | 117-81-7   | B2                 | I                | 1.4E-02                              | I                | 2.0E-02                 | I                | —                                         | —                | —                           | —                |
| Bismuth                                       | 7440-69-9  | —                  | —                | —                                    | —                | 5.0E-01                 | T                | —                                         | —                | —                           | —                |
| Bisphenol A                                   | 80-05-7    | —                  | —                | —                                    | —                | 5.0E-02                 | I                | —                                         | —                | —                           | —                |
| Boron                                         | 7440-42-8  | D                  | I                | —                                    | —                | 2.0E-01                 | I                | —                                         | —                | 2.0E-02                     | H                |
| Bromacil                                      | 314-40-9   | —                  | —                | —                                    | —                | 1.0E-01                 | T                | —                                         | —                | —                           | —                |
| Bromo-2-chloroethane, 1-                      | 107-04-0   | —                  | —                | —                                    | —                | 4.0E-02                 | T                | —                                         | —                | —                           | —                |
| Bromobenzene                                  | 108-86-1   | IIACP              | I                | —                                    | —                | 8.0E-03                 | I                | —                                         | —                | 6.0E-02                     | I                |
| Bromodichloromethane                          | 75-27-4    | B2                 | I                | 6.2E-02                              | I                | 8.0E-03                 | A                | —                                         | —                | —                           | —                |
| Bromoform                                     | 75-25-2    | B2                 | I                | 7.9E-03                              | I                | 2.0E-02                 | I                | 1.1E-06                                   | I                | —                           | —                |
| Bromomethane                                  | 74-83-9    | D                  | I                | —                                    | —                | 1.4E-03                 | I                | —                                         | —                | 3.9E-03                     | A                |
| Bromophenyl phenylether, 4-                   | 101-55-3   | —                  | —                | 1.5E+01                              | T                | —                       | —                | 3.3E-03                                   | T                | —                           | —                |
| Butadiene, 1,3-                               | 106-99-0   | A                  | I                | —                                    | —                | —                       | —                | 5.0E-07                                   | T                | 3.3E-02                     | T                |
| Butadiene, 2-methyl-1,3- (isoprene)           | 78-79-5    | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Butanal (butyraldehyde)                       | 123-72-8   | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.0E-01                     | T                |
| Butane, 2,3-dimethyl-                         | 79-29-8    | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                                        | CAS        | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|------------------------------------------------------------|------------|--------------------|------------------|----------------------------------|------------------|---------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| Butanoic acid (butyric acid)                               | 107-92-6   | —                  | —                | —                                | —                | 5.0E-01             | T                | —                                         | —                | 1.0E-03                     | T                |
| Butanol, 2-                                                | 78-92-2    | —                  | —                | —                                | —                | 2.0E+00             | PPRTV            | —                                         | —                | 3.0E+01                     | PPRTV            |
| Butanol, 2-methyl-1-                                       | 137-32-6   | —                  | —                | —                                | —                | 1.0E-02             | T                | —                                         | —                | —                           | —                |
| Butanol, 2-methyl-2-                                       | 75-85-4    | —                  | —                | —                                | —                | 1.0E-02             | T                | —                                         | —                | —                           | —                |
| Butanol, n-                                                | 71-36-3    | D                  | I                | —                                | —                | 1.0E-01             | I                | —                                         | —                | —                           | —                |
| Butene, 1-                                                 | 106-98-9   | —                  | —                | —                                | —                | 6.0E-02             | T                | —                                         | —                | 5.3E+00                     | T                |
| Butene, cis-2-                                             | 590-18-1   | —                  | —                | —                                | —                | 6.0E-02             | T                | —                                         | —                | 1.6E+00                     | T                |
| Butene, trans-2-                                           | 624-64-6   | —                  | —                | —                                | —                | 6.0E-02             | T                | —                                         | —                | 1.6E+00                     | T                |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2   | NLC                | I                | —                                | —                | 1.0E-01             | I                | —                                         | —                | 1.6E+00                     | I                |
| Butyl acetate                                              | 123-86-4   | —                  | —                | —                                | —                | 1.4E-01             | T                | —                                         | —                | 4.7E+00                     | T                |
| Butyl acrylate                                             | 141-32-2   | —                  | —                | —                                | —                | 9.0E-03             | T                | —                                         | —                | —                           | —                |
| Butyl benzyl phthalate                                     | 85-68-7    | LC                 | PPRTV            | 1.9E-03                          | PPRTV            | 2.0E-01             | I                | —                                         | —                | —                           | —                |
| Butyl ether, n- (dibutyl ether)                            | 142-96-1   | D                  | N                | —                                | —                | 1.0E-01             | T                | —                                         | —                | —                           | —                |
| Butyl methacrylate                                         | 97-88-1    | —                  | —                | —                                | —                | 9.0E-02             | T                | —                                         | —                | —                           | —                |
| Butylate                                                   | 2008-41-5  | —                  | —                | —                                | —                | 5.0E-02             | I                | —                                         | —                | —                           | —                |
| Butylbenzene, n-                                           | 104-51-8   | D                  | N                | —                                | —                | 5.0E-02             | PPRTV            | —                                         | —                | —                           | —                |
| Butylbenzene, sec-                                         | 135-98-8   | IIACP              | PPRTV            | —                                | —                | 4.0E-02             | N                | —                                         | —                | —                           | —                |
| Butylbenzene, tert-                                        | 98-06-6    | IIACP              | PPRTV            | —                                | —                | 4.0E-02             | N                | —                                         | —                | —                           | —                |
| Cacodylic acid                                             | 75-60-5    | D                  | I                | —                                | —                | 3.0E-03             | H                | —                                         | —                | —                           | —                |
| Cadmium <sup>4</sup>                                       | 7440-43-9  | LC                 | T                | —                                | —                | 1.0E-03/<br>5.0E-04 | I                | 4.9E-04                                   | T                | 1.1E-05                     | T                |
| Calcium*                                                   | 7440-70-2  | —                  | —                | —                                | —                | —                   | —                | —                                         | —                | —                           | —                |
| Caprolactam                                                | 105-60-2   | —                  | —                | —                                | —                | 5.0E-01             | I                | —                                         | —                | —                           | —                |
| Captan                                                     | 133-06-2   | B2                 | H                | 3.5E-03                          | H                | 1.3E-01             | I                | —                                         | —                | —                           | —                |
| Carbaryl                                                   | 63-25-2    | —                  | —                | —                                | —                | 1.0E-01             | I                | —                                         | —                | —                           | —                |
| Carbazole                                                  | 86-74-8    | B2                 | H                | 2.0E-02                          | H                | —                   | —                | —                                         | —                | —                           | —                |
| Carbofuran                                                 | 1563-66-2  | —                  | —                | —                                | —                | 5.0E-03             | I                | —                                         | —                | —                           | —                |
| Carbon disulfide                                           | 75-15-0    | —                  | —                | —                                | —                | 1.0E-01             | I                | —                                         | —                | 7.0E-01                     | I                |
| Carbon tetrachloride                                       | 56-23-5    | LC                 | I                | 7.0E-02                          | I                | 4.0E-03             | I                | 3.6E-06                                   | T                | 1.6E-01                     | T                |
| Carbophenothion                                            | 786-19-6   | —                  | —                | —                                | —                | 1.3E-02             | CU               | —                                         | —                | —                           | —                |
| Carbosulfan                                                | 55285-14-8 | —                  | —                | —                                | —                | 1.0E-02             | I                | —                                         | —                | —                           | —                |
| Carboxin                                                   | 5234-68-4  | —                  | —                | —                                | —                | 1.0E-01             | I                | —                                         | —                | —                           | —                |
| Chloral                                                    | 75-87-6    | C                  | I                | —                                | —                | 1.0E-01             | I                | —                                         | —                | —                           | —                |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)         | 302-17-0   | C                  | I                | —                                | —                | 1.0E-01             | I                | —                                         | —                | —                           | —                |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid)      | 133-90-4   | —                  | —                | —                                | —                | 1.5E-02             | I                | —                                         | —                | —                           | —                |
| Chlordane (technical)                                      | 12789-03-6 | B2                 | I                | 3.5E-01                          | I                | 5.0E-04             | I                | 1.0E-04                                   | I                | 7.0E-04                     | I                |
| Chlordane, cis- (alpha chlordane)                          | 5103-71-9  | B2                 | T                | 3.5E-01                          | T                | 5.0E-04             | T                | 1.0E-04                                   | T                | 7.0E-04                     | T                |
| Chlordane, trans- (gamma chlordane)                        | 57-74-9    | B2                 | T                | 3.5E-01                          | T                | 5.0E-04             | T                | 1.0E-04                                   | T                | 7.0E-04                     | T                |
| Chlorfenvinphos                                            | 470-90-6   | —                  | —                | —                                | —                | 7.0E-04             | A                | —                                         | —                | 2.0E-03                     | T                |
| Chloride*                                                  | 16887-00-6 | —                  | —                | —                                | —                | —                   | —                | —                                         | —                | —                           | —                |
| Chlorine                                                   | 7782-50-5  | —                  | —                | —                                | —                | 1.0E-01             | I                | —                                         | —                | 8.7E-03                     | T                |
| Chloro-1,3-butadiene, 2-                                   | 126-99-8   | LC                 | I                | —                                | —                | —                   | —                | 3.0E-04                                   | I                | 2.0E-02                     | I                |
| Chloro-2-propanol, 1-                                      | 127-00-4   | —                  | —                | —                                | —                | 2.0E-02             | T                | —                                         | —                | —                           | —                |
| Chloro-3-methylphenol, 4-                                  | 59-50-7    | —                  | —                | —                                | —                | 5.0E-03             | T                | —                                         | —                | —                           | —                |
| Chloroaniline, p-                                          | 106-47-8   | LC                 | PPRTV            | 2.0E-01                          | PPRTV            | 4.0E-03             | I                | —                                         | —                | —                           | —                |
| Chlorobenzene                                              | 108-90-7   | D                  | I                | —                                | —                | 2.0E-02             | I                | —                                         | —                | 5.0E-02                     | PPRTV            |
| Chlorobenzilate                                            | 510-15-6   | B2                 | H                | 2.7E-01                          | H                | 2.0E-02             | I                | 7.8E-05                                   | H                | —                           | —                |
| Chlorobromomethane (bromochloromethane)                    | 74-97-5    | —                  | —                | —                                | —                | 4.0E-02             | T                | —                                         | —                | —                           | —                |
| Chlorodifluoromethane                                      | 75-45-6    | —                  | —                | —                                | —                | —                   | —                | —                                         | —                | 5.0E+01                     | I                |
| Chloroethane (ethyl chloride)                              | 75-00-3    | —                  | —                | —                                | —                | 4.0E-01             | N                | —                                         | —                | 1.0E+01                     | I                |
| Chloroethanol, 2-                                          | 107-07-3   | IIACP              | PPRTV            | —                                | —                | 2.0E-02             | PPRTV            | —                                         | —                | —                           | —                |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether)          | 110-75-8   | —                  | —                | 1.1E+00                          | T                | 2.0E-03             | T                | —                                         | —                | 3.0E-04                     | T                |
| Chloroform                                                 | 67-66-3    | B2                 | I                | —                                | —                | 1.0E-02             | I                | 2.3E-05                                   | I                | 9.7E-02                     | A                |
| Chlorohexane, 1-                                           | 544-10-5   | —                  | —                | —                                | —                | 4.0E-02             | T                | —                                         | —                | 1.0E+00                     | T                |
| Chloromethane (methyl chloride)                            | 74-87-3    | IIACP              | PPRTV            | 1.3E-02                          | H                | 3.6E-03             | T                | 1.8E-06                                   | H                | 9.0E-02                     | I                |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-)          | 90-13-1    | —                  | —                | —                                | —                | 8.0E-02             | I                | —                                         | —                | —                           | —                |
| Chloronaphthalene, 2- (chloronaphthalene, beta)            | 91-58-7    | —                  | —                | —                                | —                | 8.0E-02             | I                | —                                         | —                | —                           | —                |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)           | 100-00-5   | LC                 | PPRTV            | 6.3E-03                          | PPRTV            | 1.0E-03             | PPRTV            | —                                         | —                | 6.0E-04                     | PPRTV            |
| Chlorophenol, 2-                                           | 95-57-8    | —                  | —                | —                                | —                | 5.0E-03             | I                | —                                         | —                | —                           | —                |
| Chlorophenol, 3-                                           | 108-43-0   | —                  | —                | —                                | —                | 5.0E-03             | T                | —                                         | —                | —                           | —                |
| Chlorophenol, 4-                                           | 106-48-9   | —                  | —                | —                                | —                | 5.0E-03             | T                | —                                         | —                | —                           | —                |
| Chlorophenyl phenylether, 4-                               | 7005-72-3  | —                  | —                | 1.5E+01                          | T                | —                   | —                | 3.3E-03                                   | T                | —                           | —                |
| Chloropropane, 2-                                          | 75-29-6    | —                  | —                | —                                | —                | 3.0E-02             | T                | —                                         | —                | 1.0E-01                     | H                |
| Chlorothalonil                                             | 1897-45-6  | B2                 | H                | 1.1E-02                          | H                | 1.5E-02             | I                | —                                         | —                | —                           | —                |
| Chlorotoluene, o- (2-chlorotoluene)                        | 95-49-8    | —                  | —                | —                                | —                | 2.0E-02             | I                | —                                         | —                | 8.0E-01                     | PPRTV            |
| Chlorotoluene, p- (4-chlorotoluene)                        | 106-43-4   | —                  | —                | —                                | —                | 2.0E-02             | PPRTV            | —                                         | —                | —                           | —                |
| Chlorpyrifos                                               | 2921-88-2  | —                  | —                | —                                | —                | 3.0E-03             | I                | —                                         | —                | —                           | —                |
| Chromium (III)                                             | 16065-83-1 | —                  | —                | —                                | —                | 1.5E+00             | I                | —                                         | —                | 1.4E-04                     | T                |
| Chromium (total)                                           | 7440-47-3  | —                  | —                | —                                | —                | 1.5E+00             | I                | —                                         | —                | 1.4E-04                     | T                |
| Chromium (VI)                                              | 18540-29-9 | CH                 | T                | —                                | —                | 3.1E-03             | T                | 2.3E-03                                   | T                | 2.2E-04                     | T                |
| Chrysene                                                   | 218-01-9   | CH                 | I                | 1.0E-03                          | EPA –93          | —                   | —                | 6.0E-07                                   | EPA –93          | —                           | —                |
| Cobalt                                                     | 7440-48-4  | LC                 | T                | —                                | —                | 1.0E-02             | T                | 6.0E-03                                   | T                | 6.3E-05                     | T                |
| Copolymer acrylamide                                       | 69418-26-4 | —                  | —                | —                                | —                | 2.0E-04             | T                | —                                         | —                | —                           | —                |
| Copper                                                     | 7440-50-8  | D                  | I                | —                                | —                | 9.7E-02             | T                | —                                         | —                | —                           | —                |
| Coronene                                                   | 191-07-1   | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | —                           | —                |
| Coumaphos                                                  | 56-72-4    | —                  | —                | —                                | —                | 7.0E-03             | T                | —                                         | —                | —                           | —                |
| Cresol                                                     | 1319-77-3  | C                  | I                | —                                | —                | 5.0E-02             | I                | —                                         | —                | —                           | —                |
| Cresol, m- (3-methylphenol)                                | 108-39-4   | C                  | I                | —                                | —                | 5.0E-02             | I                | —                                         | —                | —                           | —                |
| Cresol, o- (2-methylphenol)                                | 95-48-7    | C                  | I                | —                                | —                | 5.0E-02             | I                | —                                         | —                | —                           | —                |
| Cresol, p- (4-methylphenol)                                | 106-44-5   | C                  | I                | —                                | —                | 5.0E-03             | H                | —                                         | —                | —                           | —                |
| Crotonaldehyde                                             | 123-73-9   | C                  | I                | 1.9E+00                          | H                | 1.0E-03             | PPRTV            | —                                         | —                | —                           | —                |
| Cumene (isopropylbenzene)                                  | 98-82-8    | D                  | I                | —                                | —                | 1.0E-01             | I                | —                                         | —                | 4.0E-01                     | I                |
| Cyanazine                                                  | 21725-46-2 | C                  | H                | 8.4E-01                          | H                | 2.0E-03             | H                | —                                         | —                | —                           | —                |
| Cyanide                                                    | 57-12-5    | D                  | I                | —                                | —                | 6.0E-04             | I                | —                                         | —                | 8.0E-04                     | I                |
| Cyanogen                                                   | 460-19-5   | —                  | —                | —                                | —                | 1.0E-03             | I                | —                                         | —                | 8.0E-04                     | I                |
| Cycloate                                                   | 1134-23-2  | —                  | —                | —                                | —                | 5.5E-02             | CU               | —                                         | —                | —                           | —                |
| Cyclohexane                                                | 110-82-7   | D                  | I                | —                                | —                | 5.0E+00             | T                | —                                         | —                | 6.0E+00                     | I                |
| Cyclohexanol                                               | 108-93-0   | —                  | —                | —                                | —                | 5.0E+00             | T                | —                                         | —                | —                           | —                |
| Cyclohexanone                                              | 108-94-1   | —                  | —                | —                                | —                | 5.0E+00             | I                | —                                         | —                | 7.0E-01                     | PPRTV            |
| Cyclohexene-1-methanol, 3-                                 | 1679-51-2  | —                  | —                | —                                | —                | 2.0E-02             | T                | —                                         | —                | —                           | —                |
| Cyclohexene, 4-vinyl-1-                                    | 100-40-3   | —                  | —                | —                                | —                | 2.2E-02             | T                | —                                         | —                | 3.3E-01                     | T                |

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                                    | CAS        | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|--------------------------------------------------------|------------|--------------------|------------------|----------------------------------|------------------|---------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| Cyclopentane                                           | 287-92-3   | —                  | —                | —                                | —                | 6.0E-02             | T                | —                                         | —                | 2.4E+01                     | T                |
| Cyclopentane, methyl-                                  | 96-37-7    | —                  | —                | —                                | —                | 1.0E-01             | T                | —                                         | —                | 1.0E+00                     | T                |
| Cyclopentene                                           | 142-29-0   | —                  | —                | —                                | —                | 5.0E+00             | T                | —                                         | —                | —                           | —                |
| Cyclotetramethylenetetranitramine (HMX)                | 2691-41-0  | D                  | I                | —                                | —                | 5.0E-02             | I                | —                                         | —                | —                           | —                |
| Cyclotrimethylenetrinitramine (RDX)                    | 121-82-4   | SEC                | I                | 8.0E-02                          | I                | 4.0E-03             | I                | —                                         | —                | —                           | —                |
| Cymene (isopropyltoluene)                              | 99-87-6    | —                  | —                | —                                | —                | 1.0E-01             | T                | —                                         | —                | —                           | —                |
| Cymoxanil                                              | 57966-95-7 | —                  | —                | —                                | —                | 1.3E-02             | EPA —OP          | —                                         | —                | —                           | —                |
| Dacthal (DCPA)                                         | 1861-32-1  | —                  | —                | —                                | —                | 1.0E-02             | I                | —                                         | —                | —                           | —                |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)      | 75-99-0    | —                  | —                | —                                | —                | 3.0E-02             | I                | —                                         | —                | —                           | —                |
| DDD                                                    | 72-54-8    | B2                 | I                | 2.4E-01                          | I                | —                   | —                | —                                         | —                | —                           | —                |
| DDE                                                    | 72-55-9    | B2                 | I                | 3.4E-01                          | I                | —                   | —                | —                                         | —                | —                           | —                |
| DDT                                                    | 50-29-3    | B2                 | I                | 3.4E-01                          | I                | 5.0E-04             | I                | 9.7E-05                                   | I                | —                           | —                |
| Demeton                                                | 8065-48-3  | —                  | —                | —                                | —                | 4.0E-05             | I                | —                                         | —                | —                           | —                |
| Desethylatrazine                                       | 6190-65-4  | —                  | —                | —                                | —                | 3.5E-02             | T                | —                                         | —                | —                           | —                |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone)     | 123-42-2   | —                  | —                | —                                | —                | 4.0E-02             | T                | —                                         | —                | —                           | —                |
| Diallate                                               | 2303-16-4  | B2                 | H                | 6.1E-02                          | H                | —                   | —                | —                                         | —                | —                           | —                |
| Diazinon                                               | 333-41-5   | —                  | —                | —                                | —                | 9.0E-04             | H                | —                                         | —                | 1.0E-04                     | T                |
| Dibenz(a,h)acridine                                    | 226-36-8   | C                  | OEHHA            | 1.2E+00                          | OEHHA            | —                   | —                | 1.1E-04                                   | OEHHA            | —                           | —                |
| Dibenz(a,i)acridine                                    | 224-42-0   | —                  | —                | 7.3E-01                          | T                | —                   | —                | 8.8E-05                                   | T                | —                           | —                |
| Dibenz-a,h-anthracene                                  | 53-70-3    | CH                 | I                | 1.0E+00                          | EPA —93          | —                   | —                | 6.0E-04                                   | EPA —93          | —                           | —                |
| Dibenzo(a,e)pyrene                                     | 192-65-4   | —                  | —                | 7.3E+00                          | T                | —                   | —                | 8.8E-04                                   | T                | —                           | —                |
| Dibenzo(a,h)pyrene                                     | 189-64-0   | —                  | —                | 7.3E+01                          | T                | —                   | —                | 8.8E-03                                   | T                | —                           | —                |
| Dibenzo(a,i)pyrene                                     | 189-55-9   | —                  | —                | 7.3E+01                          | T                | —                   | —                | 8.8E-03                                   | T                | —                           | —                |
| Dibenzofuran                                           | 132-64-9   | D                  | I                | —                                | —                | 4.0E-03             | N                | —                                         | —                | —                           | —                |
| Dibenzothiophene                                       | 132-65-0   | IIACP              | PPRTV            | —                                | —                | 3.0E-03             | T                | —                                         | —                | —                           | —                |
| Dibromo-3-chloropropane, 1,2-                          | 96-12-8    | LC                 | PPRTV            | 8.0E-01                          | PPRTV            | 2.0E-04             | PPRTV            | 6.0E-03                                   | PPRTV            | 2.0E-04                     | I                |
| Dibromochloromethane (chlorodibromomethane)            | 124-48-1   | C                  | I                | 8.4E-02                          | I                | 2.0E-02             | I                | —                                         | —                | —                           | —                |
| Dibromofluoromethane                                   | 1868-53-7  | —                  | —                | —                                | —                | 2.0E-01             | T                | —                                         | —                | —                           | —                |
| Dicamba                                                | 1918-00-9  | —                  | —                | —                                | —                | 3.0E-02             | I                | —                                         | —                | —                           | —                |
| Dichlormid                                             | 37764-25-3 | —                  | —                | —                                | —                | 2.5E-02             | T                | —                                         | —                | —                           | —                |
| Dichloro-2-butene, 1,4-                                | 764-41-0   | SEC                | PPRTV            | —                                | —                | —                   | —                | 4.2E-03                                   | PPRTV            | —                           | —                |
| Dichloro-2-butene, 1,4- trans                          | 110-57-6   | SEC                | PPRTV            | —                                | —                | —                   | —                | 4.2E-03                                   | PPRTV            | —                           | —                |
| Dichlorobenzene, 1,2-                                  | 95-50-1    | D                  | I                | —                                | —                | 9.0E-02             | I                | —                                         | —                | 3.0E-02                     | N                |
| Dichlorobenzene, 1,3-                                  | 541-73-1   | D                  | I                | —                                | —                | 3.0E-02             | N                | —                                         | —                | 8.0E-03                     | N                |
| Dichlorobenzene, 1,4-                                  | 106-46-7   | C                  | H                | 2.4E-02                          | H                | —                   | —                | —                                         | —                | 5.3E-01                     | T                |
| Dichlorobenzidine, 3,3'-                               | 91-94-1    | B2                 | I                | 4.5E-01                          | I                | —                   | —                | —                                         | —                | —                           | —                |
| Dichlorobutane, 2,3-                                   | 7581-97-7  | —                  | —                | —                                | —                | 1.0E-02             | T                | —                                         | —                | 7.0E-03                     | T                |
| Dichlorodifluoromethane                                | 75-71-8    | —                  | —                | —                                | —                | 2.0E-01             | I                | —                                         | —                | 1.0E-01                     | PPRTV            |
| Dichloroethane, 1,1-                                   | 75-34-3    | C                  | I                | —                                | —                | 2.0E-01             | PPRTV            | —                                         | —                | 2.4E+00                     | T                |
| Dichloroethane, 1,2-                                   | 107-06-2   | B2                 | I                | 9.1E-02                          | I                | 7.8E-02             | T                | 3.4E-06                                   | T                | 4.4E-02                     | T                |
| Dichloroethylene, 1,1-                                 | 75-35-4    | C                  | I                | —                                | —                | 5.0E-02             | I                | —                                         | —                | 3.4E-01                     | T                |
| Dichloroethylene, cis-1,2-                             | 156-59-2   | IIACP              | I                | —                                | —                | 2.0E-03             | I                | —                                         | —                | 6.0E-02                     | T                |
| Dichloroethylene, trans-1,2                            | 156-60-5   | IIACP              | I                | —                                | —                | 2.0E-02             | I                | —                                         | —                | 6.0E-02                     | PPRTV            |
| Dichlorofluoromethane                                  | 75-43-4    | —                  | —                | —                                | —                | 2.0E-01             | T                | —                                         | —                | —                           | —                |
| Dichlorophenol, 2,3-                                   | 576-24-9   | —                  | —                | —                                | —                | 3.0E-03             | T                | —                                         | —                | —                           | —                |
| Dichlorophenol, 2,4-                                   | 120-83-2   | —                  | —                | —                                | —                | 3.0E-03             | I                | —                                         | —                | —                           | —                |
| Dichlorophenol, 2,5-                                   | 583-78-8   | —                  | —                | —                                | —                | 3.0E-03             | T                | —                                         | —                | —                           | —                |
| Dichlorophenol, 2,6-                                   | 87-65-0    | —                  | —                | —                                | —                | 1.0E-03             | T                | —                                         | —                | —                           | —                |
| Dichlorophenol, 3,4-                                   | 95-77-2    | —                  | —                | —                                | —                | 3.0E-03             | T                | —                                         | —                | —                           | —                |
| Dichlorophenol, 3,5-                                   | 591-35-5   | —                  | —                | —                                | —                | 3.0E-03             | T                | —                                         | —                | —                           | —                |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)        | 94-82-6    | —                  | —                | —                                | —                | 8.0E-03             | I                | —                                         | —                | —                           | —                |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)               | 94-75-7    | —                  | —                | —                                | —                | 2.0E-01             | A                | —                                         | —                | —                           | —                |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid)  | 120-36-5   | —                  | —                | —                                | —                | 1.0E-02             | T                | —                                         | —                | —                           | —                |
| Dichloropropane, 1,2-                                  | 78-87-5    | LC                 | PPRTV            | 3.7E-02                          | PPRTV            | 1.3E-01             | T                | 9.2E-07                                   | T                | 4.0E-03                     | I                |
| Dichloropropane, 1,3-                                  | 142-28-9   | —                  | —                | 1.0E-01                          | T                | 2.0E-02             | PPRTV            | 4.0E-06                                   | T                | 2.0E-02                     | T                |
| Dichloropropane, 2,2-                                  | 594-20-7   | —                  | —                | 6.8E-02                          | T                | 9.0E-02             | T                | —                                         | —                | 4.0E-03                     | T                |
| Dichloropropanol, 2,3-                                 | 616-23-9   | —                  | —                | —                                | —                | 3.0E-03             | I                | —                                         | —                | —                           | —                |
| Dichloropropene, 1,1-                                  | 563-58-6   | B2                 | T                | 1.0E-01                          | T                | 3.0E-02             | T                | 4.0E-06                                   | T                | 2.0E-02                     | T                |
| Dichloropropene, 1,3- (mixed isomers)                  | 542-75-6   | B2                 | I                | 1.0E-01                          | I                | 3.0E-02             | I                | 4.0E-06                                   | I                | 2.0E-02                     | I                |
| Dichloropropene, cis 1,3-                              | 10061-01-5 | —                  | —                | 5.4E-01                          | T                | 1.0E-04             | T                | —                                         | —                | 2.0E-02                     | I                |
| Dichloropropene, trans 1,3-                            | 10061-02-6 | —                  | —                | 1.0E-01                          | T                | 3.0E-02             | T                | 4.0E-06                                   | T                | 2.0E-02                     | I                |
| Dichlorvos                                             | 62-73-7    | B2                 | I                | 2.9E-01                          | I                | 5.0E-04             | I                | —                                         | —                | 5.0E-04                     | I                |
| Dicrotophos (bidrin)                                   | 141-66-2   | —                  | —                | —                                | —                | 1.0E-04             | I                | —                                         | —                | —                           | —                |
| Dicyclopentadiene                                      | 77-73-6    | IIACP              | PPRTV            | —                                | —                | 8.0E-02             | PPRTV            | —                                         | —                | —                           | —                |
| Dieldrin                                               | 60-57-1    | B2                 | I                | 1.6E+01                          | I                | 5.0E-05             | I                | 4.6E-03                                   | I                | —                           | —                |
| Diethanolamine                                         | 111-42-2   | —                  | —                | —                                | —                | 5.0E-04             | T                | —                                         | —                | 2.5E-02                     | T                |
| Diethylthiocarbamate, sodium salt                      | 148-18-5   | C                  | H                | 2.7E-01                          | H                | 3.0E-02             | I                | —                                         | —                | —                           | —                |
| Diethyl phthalate                                      | 84-66-2    | D                  | I                | —                                | —                | 8.0E-01             | I                | —                                         | —                | —                           | —                |
| Diethylene glycol                                      | 111-46-6   | —                  | —                | —                                | —                | 2.0E+00             | T                | —                                         | —                | —                           | —                |
| Diethylene glycol monobutyl ether                      | 112-34-5   | —                  | —                | —                                | —                | 3.0E-02             | PPRTV            | —                                         | —                | 1.0E-04                     | PPRTV            |
| Diethylhexyl adipate                                   | 103-23-1   | C                  | I                | 1.2E-03                          | I                | 6.0E-01             | I                | —                                         | —                | —                           | —                |
| Diethylstilbestrol                                     | 56-53-1    | A                  | H                | 4.7E+03                          | H                | —                   | —                | —                                         | —                | —                           | —                |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)            | 107-39-1   | —                  | —                | —                                | —                | 6.0E-02             | T                | —                                         | —                | 2.0E-01                     | T                |
| Diisopropylbenzene, p-                                 | 100-18-5   | —                  | —                | —                                | —                | 1.0E-02             | T                | —                                         | —                | —                           | —                |
| Diisopropyl ether (2,2'-oxybis-propane)                | 108-20-3   | —                  | —                | —                                | —                | 1.0E-01             | T                | —                                         | —                | 7.0E-01                     | PPRTV            |
| Dimethenamid                                           | 87674-68-8 | —                  | —                | —                                | —                | 1.5E-02             | T                | —                                         | —                | —                           | —                |
| Dimethoate                                             | 60-51-5    | —                  | —                | —                                | —                | 2.0E-04             | I                | —                                         | —                | —                           | —                |
| Dimethoxybenzidine, 3,3'-                              | 119-90-4   | B2                 | H                | 1.4E-02                          | H                | —                   | —                | —                                         | —                | —                           | —                |
| Dimethyl-2-nitrobenzene, 1,3-                          | 81-20-9    | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | 9.0E-03                     | T                |
| Dimethyl-3-nitrobenzene, 1,2-                          | 83-41-0    | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | 9.0E-03                     | T                |
| Dimethyl-4-nitrobenzene, 1,2-                          | 99-51-4    | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | 9.0E-03                     | T                |
| Dimethyl-5-nitrobenzene, 1,3-                          | 99-12-7    | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | 9.0E-03                     | T                |
| Dimethylphenethylamine, alpha, alpha-                  | 122-09-8   | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | —                           | —                |
| Dimethyl phenol, 2,4-                                  | 105-67-9   | —                  | —                | —                                | —                | 2.0E-02             | I                | —                                         | —                | —                           | —                |
| Dimethylaminoazobenzene, p-                            | 60-11-7    | —                  | —                | —                                | —                | 1.0E-05             | T                | —                                         | —                | —                           | —                |
| Dimethylbenz-a-anthracene, 7,12-                       | 57-97-6    | —                  | —                | 2.5E+02                          | T                | —                   | —                | 2.4E-02                                   | T                | —                           | —                |
| Dimethylbenzidine, 3,3'-                               | 119-93-7   | LC                 | PPRTV            | 1.1E+01                          | PPRTV            | —                   | —                | —                                         | —                | —                           | —                |
| Dimethylformamide, N,N-                                | 68-12-2    | —                  | —                | —                                | —                | 1.0E-01             | PPRTV            | —                                         | —                | 3.0E-02                     | I                |
| Dimethylnaphthalene, 1,3-                              | 575-41-7   | —                  | —                | —                                | —                | 4.0E-02             | T                | —                                         | —                | —                           | —                |
| Dimethylphthalate                                      | 131-11-3   | D                  | I                | —                                | —                | 8.0E-01             | T                | —                                         | —                | —                           | —                |
| Di-n-butyl phthalate                                   | 84-74-2    | D                  | I                | —                                | —                | 1.0E-01             | I                | —                                         | —                | —                           | —                |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-) | 534-52-1   | —                  | —                | —                                | —                | 1.0E-04             | PPRTV            | —                                         | —                | —                           | —                |

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                                             | CAS        | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|-----------------------------------------------------------------|------------|--------------------|------------------|----------------------------------|------------------|---------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)                     | 99-65-0    | D                  | I                | —                                | —                | 1.0E-04             | I                | —                                         | —                | —                           | —                |
| Dinitrobenzene, 1,4-                                            | 100-25-4   | —                  | I                | —                                | —                | 1.0E-04             | PPRTV            | —                                         | —                | —                           | —                |
| Dinitrophenol, 2,4-                                             | 51-28-5    | —                  | —                | —                                | —                | 2.0E-03             | I                | —                                         | —                | —                           | —                |
| Dinitrophenol, 2,5-                                             | 329-71-5   | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | —                           | —                |
| Dinitrotoluene, 2,4-                                            | 121-14-2   | B2                 | I                | 6.8E-01                          | mixed iso        | 2.0E-03             | I                | —                                         | —                | —                           | —                |
| Dinitrotoluene, 2,6-                                            | 606-20-2   | B2                 | I                | 6.8E-01                          | mixed iso        | 1.0E-03             | T                | —                                         | —                | —                           | —                |
| Di-n-octyl phthalate                                            | 117-84-0   | IIACP              | PPRTV            | —                                | —                | 1.0E-02             | PPRTV            | —                                         | —                | —                           | —                |
| Dinoseb                                                         | 88-85-7    | D                  | I                | —                                | —                | 1.0E-03             | I                | —                                         | —                | —                           | —                |
| Dioxane 1,4-                                                    | 123-91-1   | LC                 | I                | 1.0E-01                          | I                | 3.0E-02             | I                | 5.0E-06                                   | I                | 1.1E-01                     | A                |
| Dioxins/furans, polychlorinated; (reported as 2,3,7,8-TCDD TEQ) | 1746-01-6  | —                  | —                | —                                | —                | —                   | —                | —                                         | —                | —                           | —                |
| Diphenyl ether                                                  | 101-84-8   | —                  | —                | —                                | —                | 6.2E-03             | T                | —                                         | —                | —                           | —                |
| Diphenylamine                                                   | 122-39-4   | —                  | —                | —                                | —                | 2.5E-02             | I                | —                                         | —                | —                           | —                |
| Diphenylhydrazine, 1,2-                                         | 122-66-7   | B2                 | I                | 8.0E-01                          | I                | —                   | —                | 2.2E-04                                   | I                | —                           | —                |
| Dipropylene glycol                                              | 110-98-5   | —                  | —                | —                                | —                | 1.2E-01             | T                | —                                         | —                | —                           | —                |
| Diquat                                                          | 85-00-7    | —                  | —                | —                                | —                | 2.2E-03             | I                | —                                         | —                | —                           | —                |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)     | 142-73-4   | —                  | —                | —                                | —                | 1.0E-02             | T                | —                                         | —                | —                           | —                |
| Disulfoton                                                      | 298-04-4   | —                  | —                | —                                | —                | 4.0E-05             | I                | —                                         | —                | —                           | —                |
| Diuron                                                          | 330-54-1   | —                  | —                | —                                | —                | 2.0E-03             | I                | —                                         | —                | —                           | —                |
| Dodecylphenol, 4-                                               | 104-43-8   | —                  | —                | —                                | —                | 5.0E-02             | T                | —                                         | —                | —                           | —                |
| Endosulfan                                                      | 115-29-7   | —                  | —                | —                                | —                | 6.0E-03             | I                | —                                         | —                | —                           | —                |
| Endosulfan I                                                    | 959-98-8   | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | —                           | —                |
| Endosulfan II                                                   | 33213-65-9 | —                  | —                | —                                | —                | 6.0E-03             | T                | —                                         | —                | —                           | —                |
| Endosulfan sulfate                                              | 1031-07-8  | —                  | —                | —                                | —                | 6.0E-03             | T                | —                                         | —                | —                           | —                |
| Endothall                                                       | 145-73-3   | —                  | —                | —                                | —                | 2.0E-02             | I                | —                                         | —                | —                           | —                |
| Endrin                                                          | 72-20-8    | D                  | I                | —                                | —                | 3.0E-04             | I                | —                                         | —                | —                           | —                |
| Endrin aldehyde                                                 | 7421-93-4  | D                  | T                | —                                | —                | 3.0E-04             | T                | —                                         | —                | —                           | —                |
| Endrin ketone                                                   | 53494-70-5 | D                  | T                | —                                | —                | 3.0E-04             | T                | —                                         | —                | —                           | —                |
| Epichlorohydrin                                                 | 106-89-8   | B2                 | I                | 9.9E-03                          | I                | 6.0E-03             | PPRTV            | 1.2E-06                                   | I                | 1.0E-03                     | I                |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate)           | 2104-64-5  | —                  | —                | —                                | —                | 1.0E-05             | I                | —                                         | —                | —                           | —                |
| Esfenvalerate                                                   | 66230-04-4 | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | —                           | —                |
| Ethalfuralin (sonolan)                                          | 55283-68-6 | —                  | —                | 8.9E-02                          | EPA —97          | 4.0E-02             | EPA —97          | —                                         | —                | —                           | —                |
| Ethanol                                                         | 64-17-5    | —                  | —                | —                                | —                | 3.3E+01             | T                | —                                         | —                | —                           | —                |
| Ethanol, 2-amino-                                               | 141-43-5   | —                  | —                | —                                | —                | 1.7E-03             | T                | —                                         | —                | 2.3E-02                     | T                |
| Ethanol, 2-(2-aminoethoxy)-                                     | 929-06-6   | —                  | —                | —                                | —                | 5.0E-04             | T                | —                                         | —                | —                           | —                |
| Ethanol, 2-(2-ethoxyethoxy)-                                    | 111-90-0   | —                  | —                | —                                | —                | 2.0E+00             | H                | —                                         | —                | —                           | —                |
| Ethanol, 2-(methylanino)-                                       | 109-83-1   | —                  | —                | —                                | —                | 1.6E-02             | T                | —                                         | —                | 4.6E-02                     | T                |
| Ethion                                                          | 563-12-2   | —                  | —                | —                                | —                | 5.0E-04             | I                | —                                         | —                | —                           | —                |
| Ethoprop                                                        | 13194-48-4 | B2                 | EPA —OP          | 2.8E-02                          | EPA —OP          | 1.0E-04             | EPA —OP          | —                                         | —                | —                           | —                |
| Ethoxy ethanol, 2-                                              | 110-80-5   | —                  | —                | —                                | —                | 9.0E-02             | PPRTV            | —                                         | —                | 2.0E-01                     | I                |
| Ethyl acetate                                                   | 141-78-6   | IIACP              | PPRTV            | —                                | —                | 9.0E-01             | I                | —                                         | —                | 2.3E-01                     | T                |
| Ethyl acrylate                                                  | 140-88-5   | B2                 | H                | 4.8E-02                          | H                | 5.0E-03             | PPRTV            | —                                         | —                | 8.0E-03                     | PPRTV            |
| Ethyl benzene                                                   | 100-41-4   | D                  | I                | —                                | —                | 1.0E-01             | I                | —                                         | —                | 1.9E+00                     | T                |
| Ethyl dipropylthiocarbamate, S-                                 | 759-94-4   | —                  | —                | —                                | —                | 2.5E-02             | I                | —                                         | —                | —                           | —                |
| Ethyl ether                                                     | 60-29-7    | —                  | —                | —                                | —                | 2.0E-01             | I                | —                                         | —                | —                           | —                |
| Ethyl methacrylate                                              | 97-63-2    | —                  | —                | —                                | —                | 9.0E-02             | H                | —                                         | —                | 3.0E-01                     | PPRTV            |
| Ethyl methanesulfonate                                          | 62-50-0    | —                  | —                | 9.9E-02                          | T                | —                   | —                | 2.8E-05                                   | T                | —                           | —                |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)                | 637-92-3   | —                  | —                | —                                | —                | 1.0E-03             | T                | —                                         | —                | 3.0E-01                     | T                |
| Ethyl-1-hexanol, 2-                                             | 104-76-7   | —                  | —                | —                                | —                | 1.5E-01             | T                | —                                         | —                | —                           | —                |
| Ethyl-2-hexenal, 2-                                             | 645-62-5   | —                  | —                | —                                | —                | 1.5E-01             | T                | —                                         | —                | —                           | —                |
| Ethyl-2-methyl benzene, 1-                                      | 611-14-3   | D                  | T                | —                                | —                | 5.0E-02             | T                | —                                         | —                | 4.0E-01                     | T                |
| Ethyl-4-methyl benzene, 1-                                      | 622-96-8   | D                  | T                | —                                | —                | 5.0E-02             | T                | —                                         | —                | 4.0E-01                     | T                |
| Ethylene*                                                       | 74-85-1    | —                  | —                | —                                | —                | —                   | —                | —                                         | —                | —                           | —                |
| Ethylene dibromide (dibromoethane, 1,2- )                       | 106-93-4   | LC                 | T                | 2.0E+00                          | I                | 9.0E-03             | I                | 4.4E-05                                   | T                | 6.7E-02                     | T                |
| Ethylene glycol                                                 | 107-21-1   | —                  | —                | —                                | —                | 2.0E+00             | I                | —                                         | —                | —                           | —                |
| Ethylene oxide                                                  | 75-21-8    | LC                 | T                | 1.0E+00                          | H                | —                   | —                | 1.4E-06                                   | T                | —                           | —                |
| Ethylene thiourea                                               | 96-45-7    | B2                 | H                | 1.1E-01                          | H                | 8.0E-05             | I                | —                                         | —                | —                           | —                |
| Ethylenediamine                                                 | 107-15-3   | D                  | I                | —                                | —                | 9.0E-02             | PPRTV            | —                                         | —                | —                           | —                |
| Ethylenimine                                                    | 151-56-4   | C                  | T                | 6.5E+01                          | OEHA             | —                   | —                | 1.9E-02                                   | OEHA             | —                           | —                |
| Ethylhexyl acrylate, 2-                                         | 103-11-7   | B2                 | T                | 4.8E-02                          | T                | —                   | —                | —                                         | —                | —                           | —                |
| Famphur                                                         | 52-85-7    | —                  | —                | —                                | —                | 3.0E-05             | T                | —                                         | —                | —                           | —                |
| Fensulfothion                                                   | 115-90-2   | —                  | —                | —                                | —                | 1.0E-03             | T                | —                                         | —                | —                           | —                |
| Fenthion                                                        | 55-38-9    | —                  | —                | —                                | —                | 7.0E-05             | EPA —OP          | —                                         | —                | —                           | —                |
| Fenuron                                                         | -          | —                  | —                | —                                | —                | 7.0E-02             | T                | —                                         | —                | —                           | —                |
| Fluoranthene                                                    | 206-44-0   | IIACP              | PPRTV            | —                                | —                | 4.0E-02             | I                | —                                         | —                | —                           | —                |
| Fluorene                                                        | 86-73-7    | D                  | I                | —                                | —                | 4.0E-02             | I                | —                                         | —                | —                           | —                |
| Fluorine (soluble fluoride)                                     | 7782-41-4  | —                  | —                | —                                | —                | 6.0E-02             | I                | —                                         | —                | 2.7E-02                     | T                |
| Fluorochloridone                                                | 61213-25-0 | —                  | —                | —                                | —                | 7.5E-03             | T                | —                                         | —                | —                           | —                |
| Fonofos                                                         | 944-22-9   | —                  | —                | —                                | —                | 2.0E-03             | I                | —                                         | —                | —                           | —                |
| Formaldehyde <sup>5</sup>                                       | 50-00-0    | B1                 | I                | —                                | —                | 2.0E-01             | I                | —                                         | —                | 1.1E-02                     | T                |
| Formic acid                                                     | 64-18-6    | —                  | —                | —                                | —                | 9.0E-01             | PPRTV            | —                                         | —                | 3.0E-03                     | PPRTV            |
| Furan                                                           | 110-00-9   | —                  | —                | —                                | —                | 1.0E-03             | I                | —                                         | —                | —                           | —                |
| Furfural                                                        | 98-01-1    | —                  | —                | —                                | —                | 3.0E-03             | I                | —                                         | —                | —                           | —                |
| Glycidylaldehyde                                                | 765-34-4   | B2                 | I                | —                                | —                | 4.0E-04             | I                | —                                         | —                | 1.0E-03                     | H                |
| Glyphosate                                                      | 1071-83-6  | D                  | I                | —                                | —                | 1.0E+00             | A                | —                                         | —                | —                           | —                |
| Heptachlor                                                      | 76-44-8    | B2                 | I                | 4.5E+00                          | I                | 5.0E-04             | I                | 1.3E-03                                   | I                | —                           | —                |
| Heptachlor epoxide                                              | 1024-57-3  | B2                 | I                | 9.1E+00                          | I                | 1.3E-05             | I                | 2.6E-03                                   | I                | —                           | —                |
| Heptane, n-                                                     | 142-82-5   | D                  | I                | —                                | —                | 6.0E-02             | T                | —                                         | —                | 9.0E+00                     | T                |
| Heptanoic acid, n-                                              | 111-14-8   | —                  | —                | —                                | —                | 5.0E-01             | T                | —                                         | —                | 1.0E-03                     | T                |
| Hexachlorobenzene                                               | 118-74-1   | B2                 | I                | 1.6E+00                          | I                | 8.0E-04             | I                | 4.6E-04                                   | I                | —                           | —                |
| Hexachlorobutadiene                                             | 87-68-3    | C                  | I                | 7.8E-02                          | I                | 1.0E-03             | PPRTV            | 2.2E-05                                   | I                | —                           | —                |
| Hexachlorocyclohexane, alpha (alpha-BHC)                        | 319-84-6   | B2                 | I                | 6.3E+00                          | I                | 8.0E-03             | A                | 1.8E-03                                   | I                | —                           | —                |
| Hexachlorocyclohexane, beta (beta-BHC)                          | 319-85-7   | C                  | I                | 1.8E+00                          | I                | —                   | —                | 5.3E-04                                   | I                | —                           | —                |
| Hexachlorocyclohexane, delta (delta-BHC)                        | 319-86-8   | B2                 | T                | 1.8E+00                          | T                | 3.0E-04             | T                | 5.1E-04                                   | T                | —                           | —                |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC)               | 58-89-9    | B2                 | H                | 1.3E+00                          | H                | 3.0E-04             | I                | —                                         | —                | —                           | —                |
| Hexachlorocyclohexane, techn (technical-BHC)                    | 608-73-1   | B2                 | I                | 1.8E+00                          | I                | —                   | —                | 5.1E-04                                   | I                | —                           | —                |
| Hexachlorocyclopentadiene                                       | 77-47-4    | E                  | I                | —                                | —                | 6.0E-03             | I                | —                                         | —                | 2.0E-04                     | I                |
| Hexachloroethane                                                | 67-72-1    | LC                 | I                | 4.0E-02                          | I                | 7.0E-04             | I                | —                                         | —                | 3.0E-02                     | I                |
| Hexachlorophene                                                 | 70-30-4    | —                  | —                | —                                | —                | 3.0E-04             | I                | —                                         | —                | —                           | —                |
| Hexachloropropylene                                             | 1888-71-7  | —                  | —                | 4.0E-02                          | T                | 7.0E-04             | T                | —                                         | —                | 3.0E-02                     | T                |

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                                | CAS        | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-<br>day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-<br>day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|----------------------------------------------------|------------|--------------------|------------------|--------------------------------------|------------------|-------------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| Hexanal, 2-ethyl-                                  | 123-05-7   | —                  | —                | —                                    | —                | 1.5E-01                 | T                | —                                         | —                | —                           | —                |
| Hexane, n-                                         | 110-54-3   | D                  | I                | —                                    | —                | 6.0E-02                 | H                | —                                         | —                | 6.7E-01                     | T                |
| Hexanediamine, 1,6-                                | 124-09-4   | —                  | —                | —                                    | —                | 5.0E-03                 | T                | —                                         | —                | —                           | —                |
| Hexanedinitrile                                    | 111-69-3   | —                  | —                | —                                    | —                | 1.4E-03                 | T                | —                                         | —                | 6.0E-03                     | PPRTV            |
| Hexanediol, 1,6-                                   | 629-11-8   | —                  | —                | —                                    | —                | 5.0E+00                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Hexanoic acid                                      | 142-62-1   | —                  | —                | —                                    | —                | 6.4E-02                 | T                | —                                         | —                | 1.0E-03                     | T                |
| Hexanone, 2-                                       | 591-78-6   | IIACP              | I                | —                                    | —                | 5.0E-02                 | A                | —                                         | —                | 3.0E-02                     | I                |
| Hexazinone                                         | 51235-04-2 | —                  | —                | —                                    | —                | 3.3E-02                 | I                | —                                         | —                | —                           | —                |
| Hexene, 1-                                         | 592-41-6   | —                  | —                | —                                    | —                | 3.3E-01                 | T                | —                                         | —                | 1.1E-01                     | T                |
| Hexene, cis-2-                                     | 7688-21-3  | —                  | —                | —                                    | —                | 3.3E-01                 | T                | —                                         | —                | 1.1E-01                     | T                |
| Hexylene glycol (2-methyl-2,4-pentanediol)         | 107-41-5   | —                  | —                | —                                    | —                | 3.0E-01                 | T                | —                                         | —                | —                           | —                |
| Hydrazine                                          | 302-01-2   | B2                 | I                | 3.0E+00                              | I                | —                       | —                | 4.9E-03                                   | I                | 3.0E-05                     | PPRTV            |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)     | 1191-25-9  | —                  | —                | —                                    | —                | 6.4E-02                 | T                | —                                         | —                | 1.0E-03                     | T                |
| Hydrogen chloride (hydrochloric acid)*             | 7647-01-0  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Hydroquinone                                       | 123-31-9   | LC                 | PPRTV            | 6.0E-02                              | PPRTV            | 4.0E-02                 | PPRTV            | —                                         | —                | —                           | —                |
| Indene                                             | 95-13-6    | —                  | —                | —                                    | —                | 2.0E-02                 | T                | —                                         | —                | 3.0E-03                     | T                |
| Indeno-1,2,3-cd-pyrene                             | 193-39-5   | CH                 | I                | 1.0E-01                              | EPA –93          | —                       | —                | 6.0E-05                                   | EPA –93          | —                           | —                |
| Iron*                                              | 7439-89-6  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Isoamyl alcohol                                    | 123-51-3   | —                  | —                | —                                    | —                | 5.0E-03                 | T                | —                                         | —                | —                           | —                |
| Isobutyl alcohol                                   | 78-83-1    | —                  | —                | —                                    | —                | 3.0E-01                 | I                | —                                         | —                | —                           | —                |
| Isobutylene (2-methyl-1-propene)                   | 115-11-7   | —                  | —                | —                                    | —                | 3.7E-03                 | T                | —                                         | —                | 1.1E+02                     | T                |
| Isobutyric acid (2-methylpropanoic acid)           | 79-31-2    | —                  | —                | —                                    | —                | 5.0E-01                 | T                | —                                         | —                | —                           | —                |
| Isodecanol                                         | 25339-17-7 | —                  | —                | —                                    | —                | 1.6E-03                 | T                | —                                         | —                | —                           | —                |
| Isodrin                                            | 465-73-6   | —                  | —                | 1.7E+02                              | T                | 3.0E-06                 | T                | 4.9E-02                                   | T                | —                           | —                |
| Isopentane                                         | 78-78-4    | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 2.4E+01                     | T                |
| Isophorone                                         | 78-59-1    | C                  | I                | 9.5E-04                              | I                | 2.0E-01                 | I                | —                                         | —                | —                           | —                |
| Isopropyl acetate                                  | 108-21-4   | —                  | —                | —                                    | —                | 7.0E-02                 | T                | —                                         | —                | —                           | —                |
| Isopropyl alcohol                                  | 67-63-0    | —                  | —                | —                                    | —                | 2.0E+00                 | PPRTV            | —                                         | —                | 2.0E-01                     | PPRTV            |
| Isosafrole                                         | 120-58-1   | B2                 | T                | 2.2E-01                              | T                | —                       | —                | 6.3E-05                                   | T                | —                           | —                |
| Kelthane (dicofol)                                 | 115-32-2   | —                  | —                | —                                    | —                | 6.0E-03                 | T                | —                                         | —                | —                           | —                |
| Kepone (chlordecone)                               | 143-50-0   | LC                 | I                | 1.0E+01                              | I                | 3.0E-04                 | I                | —                                         | —                | —                           | —                |
| Lead (inorganic)                                   | 7439-92-1  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Leptophos                                          | 21609-90-5 | —                  | —                | —                                    | —                | 5.0E-06                 | T                | —                                         | —                | 1.8E-06                     | T                |
| Limonene, d-*                                      | 5989-27-5  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Lithium                                            | 7439-93-2  | —                  | —                | —                                    | —                | 7.0E-03                 | T                | —                                         | —                | —                           | —                |
| Magnesium*                                         | 7439-95-4  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Malathion                                          | 121-75-5   | —                  | —                | —                                    | —                | 2.0E-02                 | I                | —                                         | —                | 2.0E-04                     | T                |
| Maleic anhydride                                   | 108-31-6   | —                  | —                | —                                    | —                | 1.0E-01                 | I                | —                                         | —                | —                           | —                |
| Maleic hydrazide                                   | 123-33-1   | —                  | —                | —                                    | —                | 5.0E-01                 | I                | —                                         | —                | —                           | —                |
| Malononitrile                                      | 109-77-3   | —                  | —                | —                                    | —                | 1.0E-04                 | PPRTV            | —                                         | —                | —                           | —                |
| Mancozeb                                           | 8018-01-7  | —                  | —                | —                                    | —                | 3.0E-02                 | I                | —                                         | —                | —                           | —                |
| Manganese <sup>6</sup>                             | 7439-96-5  | D                  | I                | —                                    | —                | 1.4E-01/<br>4.7E-02     | I                | —                                         | —                | 8.4E-04                     | T                |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | —                  | —                | —                                    | —                | 5.0E-04                 | I                | —                                         | —                | —                           | —                |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | —                  | —                | —                                    | —                | 1.0E-03                 | I                | —                                         | —                | —                           | —                |
| Mercury (pH = 4.9) <sup>7</sup>                    | 7439-97-6  | D                  | I                | —                                    | —                | 3.0E-04                 | I                | —                                         | —                | 3.0E-04                     | I                |
| Mercury (pH = 6.8) <sup>7</sup>                    | 7439-97-6  | D                  | I                | —                                    | —                | 3.0E-04                 | I                | —                                         | —                | 3.0E-04                     | I                |
| Merphos                                            | 150-50-5   | —                  | —                | —                                    | —                | 3.0E-05                 | I                | —                                         | —                | —                           | —                |
| Methacrylic acid (2-methyl-2-propenoic acid)       | 79-41-4    | —                  | —                | —                                    | —                | 1.0E-02                 | T                | —                                         | —                | —                           | —                |
| Methacrylonitrile                                  | 126-98-7   | NLC                | PPRTV            | —                                    | —                | 5.0E-02                 | T                | —                                         | —                | 3.0E-02                     | PPRTV            |
| Methanol                                           | 67-56-1    | —                  | —                | —                                    | —                | 2.0E+00                 | I                | —                                         | —                | 7.2E+00                     | T                |
| Methapyrilene                                      | 91-80-5    | —                  | —                | 4.7E+00                              | NTP –00          | —                       | —                | —                                         | —                | —                           | —                |
| Methomyl                                           | 16752-77-5 | —                  | —                | —                                    | —                | 2.5E-02                 | I                | —                                         | —                | —                           | —                |
| Methoxychlor                                       | 72-43-5    | D                  | I                | —                                    | —                | 5.0E-03                 | I                | —                                         | —                | —                           | —                |
| Methoxyethanol, 2-                                 | 109-86-4   | —                  | —                | —                                    | —                | 2.7E-02                 | T                | —                                         | —                | 2.0E-02                     | I                |
| Methyl acetate (acetic acid, methyl ester)         | 79-20-9    | —                  | —                | —                                    | —                | 1.0E+00                 | H                | —                                         | —                | —                           | —                |
| Methyl acrylate                                    | 96-33-3    | IIACP              | PPRTV            | —                                    | —                | 2.0E-03                 | T                | —                                         | —                | 2.0E-02                     | PPRTV            |
| Methyl amyl ketone (2-heptanone)                   | 110-43-0   | —                  | —                | —                                    | —                | 5.0E-02                 | T                | —                                         | —                | 2.8E+00                     | T                |
| Methyl chrysene, 1-                                | 3351-28-8  | —                  | —                | 7.3E-03                              | T                | —                       | —                | 8.8E-07                                   | T                | —                           | —                |
| Methyl chrysene, 2-                                | 3351-32-4  | —                  | —                | 7.3E-03                              | T                | —                       | —                | 8.8E-07                                   | T                | —                           | —                |
| Methyl chrysene, 6-                                | 1705-85-7  | —                  | —                | 7.3E-02                              | T                | —                       | —                | 8.8E-06                                   | T                | —                           | —                |
| Methyl cyclohexane                                 | 108-87-2   | IIACP              | PPRTV            | —                                    | —                | 5.0E+00                 | T                | —                                         | —                | 3.0E+00                     | H                |
| Methyl ethyl ketone (2-butanone)                   | 78-93-3    | D                  | I                | —                                    | —                | 6.0E-01                 | I                | —                                         | —                | 8.8E+00                     | T                |
| Methyl iodide (iodomethane)                        | 74-88-4    | —                  | —                | —                                    | —                | 1.4E-03                 | T                | —                                         | —                | —                           | —                |
| Methyl isobutyl ketone (4-methyl-2-pentanone)      | 108-10-1   | D                  | I                | —                                    | —                | 8.0E-02                 | H                | —                                         | —                | 3.0E+00                     | I                |
| Methyl mercury                                     | 22967-92-6 | C                  | I                | —                                    | —                | 1.0E-04                 | I                | —                                         | —                | —                           | —                |
| Methyl methacrylate                                | 80-62-6    | E                  | I                | —                                    | —                | 1.4E+00                 | I                | —                                         | —                | 7.0E-01                     | I                |
| Methyl methanesulfonate                            | 66-27-3    | C                  | OEHHa            | 9.9E-02                              | OEHHa            | —                       | —                | 2.8E-05                                   | OEHHa            | —                           | —                |
| Methyl parathion                                   | 298-00-0   | —                  | —                | —                                    | —                | 2.5E-04                 | I                | —                                         | —                | —                           | —                |
| Methyl-1-butene, 2-                                | 563-46-2   | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Methyl-1-propanal, 2- (isobutyraldehyde)           | 78-84-2    | —                  | —                | —                                    | —                | 4.0E-02                 | T                | —                                         | —                | —                           | —                |
| Methyl-2-butene, 2-                                | 513-35-9   | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                   | CAS        | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|---------------------------------------|------------|--------------------|------------------|----------------------------------|------------------|---------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| Methyl-2-pentenal, 2-                 | 623-36-9   | —                  | —                | 1.9E+00                          | T                | —                   | —                | —                                         | —                | —                           | —                |
| Methylcholanthrene, 3-                | 56-49-5    | —                  | —                | 2.2E+01                          | T                | —                   | —                | 2.1E-03                                   | T                | —                           | —                |
| Methylene bromide (dibromomethane)    | 74-95-3    | —                  | —                | 7.5E-03                          | T                | 6.0E-02             | T                | —                                         | —                | 4.0E-03                     | PPRTV            |
| Methylene chloride (dichloromethane)  | 75-09-2    | LC                 | T                | 9.8E-05                          | T                | 2.1E-02             | T                | 2.8E-08                                   | T                | 1.3E+00                     | T                |
| Methylene-bis (2-chloroaniline) 4,4'- | 101-14-4   | LC                 | PPRTV            | 1.0E-01                          | PPRTV            | 2.0E-03             | PPRTV            | 3.7E-05                                   | H                | —                           | —                |
| Methylmercury hydroxide               | 1184-57-2  | C                  | T                | —                                | —                | 1.0E-04             | T                | —                                         | —                | —                           | —                |
| Methylnaphthalene, 1-                 | 90-12-0    | SEC                | PPRTV            | 2.9E-02                          | PPRTV            | 7.0E-02             | A                | —                                         | —                | —                           | —                |
| Methylnaphthalene, 2-                 | 91-57-6    | D                  | I                | —                                | —                | 4.0E-03             | I                | —                                         | —                | —                           | —                |
| Methylpyrrolidone, N-                 | 872-50-4   | —                  | —                | —                                | —                | 2.0E-02             | T                | —                                         | —                | —                           | —                |
| Methylstyrene, alpha-                 | 98-83-9    | —                  | —                | —                                | —                | 8.3E-03             | T                | —                                         | —                | 2.5E-02                     | T                |
| Methyltetrahydrofuran, 2-             | 96-47-9    | —                  | —                | 7.6E-03                          | T                | 2.0E-01             | T                | 1.9E-06                                   | T                | —                           | —                |
| Methyltetrahydropyran, 2-             | 10141-72-7 | —                  | —                | 7.6E-03                          | T                | 2.0E-01             | T                | 1.9E-06                                   | T                | —                           | —                |
| Metolachlor                           | 51218-45-2 | C                  | I                | —                                | —                | 1.5E-01             | I                | —                                         | —                | —                           | —                |
| Metribuzin                            | 21087-64-9 | D                  | I                | —                                | —                | 2.5E-02             | I                | —                                         | —                | —                           | —                |
| Mirex                                 | 2385-85-5  | B2                 | H                | —                                | —                | 2.0E-04             | I                | —                                         | —                | —                           | —                |
| Molinate                              | 2212-67-1  | —                  | —                | —                                | —                | 2.0E-03             | I                | —                                         | —                | —                           | —                |
| Molybdenum                            | 7439-98-7  | —                  | —                | —                                | —                | 5.0E-03             | I                | —                                         | —                | —                           | —                |
| Monocrotophos                         | 2157-98-4  | —                  | —                | —                                | —                | 6.0E-04             | T                | —                                         | —                | —                           | —                |
| Morpholine                            | 110-91-8   | —                  | —                | —                                | —                | 5.0E+02             | T                | —                                         | —                | —                           | —                |
| Morpholine, N-butyl-                  | 1005-67-0  | —                  | —                | —                                | —                | 2.3E-03             | T                | —                                         | —                | —                           | —                |
| MTBE (methyl tert-butyl ether)        | 1634-04-4  | —                  | —                | 1.8E-03                          | OEHHA            | 1.0E-02             | OEHHA            | 2.6E-07                                   | OEHHA            | 3.0E+00                     | I                |
| Naled                                 | 300-76-5   | —                  | —                | —                                | —                | 2.0E-03             | I                | —                                         | —                | —                           | —                |
| Naphthalene                           | 91-20-3    | D                  | I                | —                                | —                | 2.0E-02             | I                | —                                         | —                | 3.0E-03                     | I                |
| Naphthoquinone, 1,4-                  | 130-15-4   | —                  | —                | —                                | —                | 7.0E-03             | T                | —                                         | —                | —                           | —                |
| Naphthylamine, 1-                     | 134-32-7   | —                  | —                | —                                | —                | 2.0E-02             | T                | —                                         | —                | —                           | —                |
| Naphthylamine, 2-                     | 91-59-8    | —                  | —                | 1.8E+00                          | OEHHA            | —                   | —                | —                                         | —                | —                           | —                |
| Napropamide                           | 15299-99-7 | —                  | —                | —                                | —                | 1.0E-01             | I                | —                                         | —                | —                           | —                |
| Neopentyl glycol                      | 126-30-7   | —                  | —                | —                                | —                | 3.0E-01             | T                | —                                         | —                | —                           | —                |
| Nickel and compounds                  | 7440-02-0  | CH                 | T                | —                                | —                | 2.0E-02             | I                | 1.7E-04                                   | T                | 2.3E-04                     | T                |
| Nitrate-N                             | 14797-55-8 | —                  | —                | —                                | —                | 1.6E+00             | I                | —                                         | —                | —                           | —                |
| Nitrite-N                             | 14797-65-0 | —                  | —                | —                                | —                | 1.0E-01             | I                | —                                         | —                | —                           | —                |
| Nitroaniline, 2-                      | 88-74-4    | D                  | N                | —                                | —                | 3.0E-04             | N                | —                                         | —                | 2.0E-04                     | H                |
| Nitroaniline, 3-                      | 99-09-2    | C                  | N                | 3.8E-02                          | N                | 3.0E-04             | PPRTV            | —                                         | —                | 2.0E-04                     | T                |
| Nitroaniline, 4-                      | 100-01-6   | SEC                | PPRTV            | 2.0E-02                          | PPRTV            | 4.0E-03             | PPRTV            | —                                         | —                | 6.0E-03                     | PPRTV            |
| Nitrobenzene                          | 98-95-3    | LC                 | I                | —                                | —                | 2.0E-03             | I                | 4.0E-05                                   | I                | 1.0E-03                     | A                |
| Nitroglycerin                         | 55-63-0    | LC                 | PPRTV            | 1.7E-02                          | PPRTV            | 1.0E-04             | PPRTV            | —                                         | —                | —                           | —                |
| Nitrophenol, 2-                       | 88-75-5    | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | —                           | —                |
| Nitrophenol, 3-                       | 554-84-7   | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | —                           | —                |
| Nitrophenol, 4-                       | 100-02-7   | —                  | —                | —                                | —                | 2.0E-03             | T                | —                                         | —                | —                           | —                |
| Nitropropane, 2-                      | 79-46-9    | —                  | —                | —                                | —                | 1.4E-04             | T                | 5.8E-04                                   | PPRTV            | 2.0E-02                     | I                |
| Nitroquinoline-N-oxide, 4-            | 56-57-5    | B2                 | T                | 9.4E+00                          | T                | —                   | —                | 2.7E-03                                   | T                | —                           | —                |
| Nitrosodiethanolamine                 | 1116-54-7  | B2                 | I                | 2.8E+00                          | I                | —                   | —                | —                                         | —                | —                           | —                |
| Nitrosodiethylamine, n-               | 55-18-5    | B2                 | I                | 1.5E+02                          | I                | —                   | —                | 4.3E-02                                   | I                | —                           | —                |
| Nitrosodimethylamine, n-              | 62-75-9    | B2                 | I                | 5.1E+01                          | I                | 8.0E-06             | PPRTV            | 1.4E-02                                   | I                | 4.0E-05                     | PPRTV            |
| Nitrosodi-n-butylamine, n-            | 924-16-3   | B2                 | I                | 5.4E+00                          | I                | —                   | —                | 1.6E-03                                   | I                | —                           | —                |
| Nitrosodi-n-propylamine, n-           | 621-64-7   | B2                 | I                | 7.0E+00                          | I                | —                   | —                | —                                         | —                | —                           | —                |
| Nitrosodiphenylamine                  | 86-30-6    | B2                 | I                | 4.9E-03                          | I                | —                   | —                | —                                         | —                | —                           | —                |
| Nitroso-methyl-ethyl-amine, n-        | 10595-95-6 | B2                 | I                | 2.2E+01                          | I                | —                   | —                | —                                         | —                | —                           | —                |
| Nitrosomorpholine, N-                 | 59-89-2    | C                  | OEHHA            | 6.7E+00                          | OEHHA            | —                   | —                | 1.9E-03                                   | OEHHA            | —                           | —                |
| Nitroso-n-ethylurea, n-               | 759-73-9   | B2                 | H                | 1.4E+02                          | H                | —                   | —                | —                                         | —                | —                           | —                |
| Nitrosopiperidine, N-                 | 100-75-4   | C                  | OEHHA            | 9.4E+00                          | OEHHA            | —                   | —                | 2.7E-03                                   | OEHHA            | —                           | —                |
| Nitrosopyrrolidine, n-                | 930-55-2   | B2                 | I                | 2.1E+00                          | I                | —                   | —                | 6.1E-04                                   | I                | —                           | —                |
| Nitrotoluene, m-                      | 99-08-1    | —                  | —                | —                                | —                | 1.0E-02             | H                | —                                         | —                | —                           | —                |
| Nitrotoluene, o-                      | 88-72-2    | LC                 | PPRTV            | 2.2E-01                          | PPRTV            | 9.0E-04             | PPRTV            | —                                         | —                | —                           | —                |

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                                                              | CAS        | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-<br>day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-<br>day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|----------------------------------------------------------------------------------|------------|--------------------|------------------|--------------------------------------|------------------|-------------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| Nitrotoluene, p-                                                                 | 99-99-0    | LC                 | PPRTV            | 1.6E-02                              | PPRTV            | 4.0E-03                 | PPRTV            | —                                         | —                | —                           | —                |
| Nonachlor, cis-                                                                  | 5103-73-1  | B2                 | T                | 3.5E-01                              | T                | 5.0E-04                 | T                | 1.0E-04                                   | T                | 7.0E-04                     | T                |
| Nonachlor, trans-                                                                | 39765-80-5 | B2                 | T                | 3.5E-01                              | T                | 5.0E-04                 | T                | 1.0E-04                                   | T                | 7.0E-04                     | T                |
| Nonanal                                                                          | 124-19-6   | —                  | —                | —                                    | —                | 2.0E-01                 | T                | —                                         | —                | —                           | —                |
| Nonene, 1-n                                                                      | 124-11-8   | —                  | —                | —                                    | —                | 1.0E-01                 | T                | —                                         | —                | —                           | —                |
| Nonylphenol, 4-n-                                                                | 104-40-5   | —                  | —                | —                                    | —                | 1.0E-01                 | T                | —                                         | —                | —                           | —                |
| Nonylphenol ethoxylate <sup>8</sup>                                              | 9016-45-9  | —                  | —                | —                                    | —                | 1.0E-01                 | T                | —                                         | —                | —                           | —                |
| Octamethylpyrophosphoramide                                                      | 152-16-9   | —                  | —                | —                                    | —                | 2.0E-03                 | H                | —                                         | —                | —                           | —                |
| Octanone                                                                         | 106-68-3   | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Oxamyl                                                                           | 23135-22-0 | —                  | —                | —                                    | —                | 2.5E-02                 | I                | —                                         | —                | —                           | —                |
| Oxvchlordane                                                                     | 27304-13-8 | B2                 | T                | 3.5E-01                              | T                | 5.0E-04                 | T                | 1.0E-04                                   | T                | 7.0E-04                     | T                |
| Paraquat                                                                         | 1910-42-5  | C                  | I                | —                                    | —                | 4.5E-03                 | I                | —                                         | —                | —                           | —                |
| Parathion (ethyl parathion)                                                      | 56-38-2    | C                  | I                | —                                    | —                | 6.0E-03                 | H                | —                                         | —                | —                           | —                |
| Pebulate                                                                         | 1114-71-2  | —                  | —                | —                                    | —                | 5.0E-02                 | H                | —                                         | —                | —                           | —                |
| Pendimethalin                                                                    | 40487-42-1 | —                  | —                | —                                    | —                | 4.0E-02                 | I                | —                                         | —                | —                           | —                |
| Pentachlorobenzene                                                               | 608-93-5   | D                  | I                | —                                    | —                | 8.0E-04                 | I                | —                                         | —                | —                           | —                |
| Pentachloroethane                                                                | 76-01-7    | LC                 | PPRTV            | 9.0E-02                              | PPRTV            | 3.0E-02                 | T                | 7.4E-06                                   | T                | —                           | —                |
| Pentachloronitrobenzene                                                          | 82-68-8    | C                  | H                | 2.6E-01                              | H                | 3.0E-03                 | I                | —                                         | —                | —                           | —                |
| Pentachlorophenol                                                                | 87-86-5    | LC                 | I                | 4.0E-01                              | I                | 5.0E-03                 | I                | —                                         | —                | —                           | —                |
| Pentadiene, 1,3-cis-                                                             | 1574-41-0  | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Pentadiene, 1,3-trans-                                                           | 2004-70-8  | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Pentaerythritol tetranitrate (PETN)                                              | 78-11-5    | —                  | —                | —                                    | —                | 2.0E-03                 | PPRTV            | —                                         | —                | —                           | —                |
| Pentane                                                                          | 109-66-0   | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 2.4E+01                     | T                |
| Pentane, 2-methyl-                                                               | 107-83-5   | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Pentane, 3-methyl-                                                               | 96-14-0    | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Pentanediol, 1,5-                                                                | 111-29-5   | —                  | —                | —                                    | —                | 5.0E+00                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Pentanol, 1-                                                                     | 71-41-0    | —                  | —                | —                                    | —                | 3.3E-02                 | T                | —                                         | —                | —                           | —                |
| Pentanol, 4-methyl-2-                                                            | 108-11-2   | —                  | —                | —                                    | —                | 2.6E-02                 | T                | —                                         | —                | —                           | —                |
| Pentanone, 2-                                                                    | 107-87-9   | —                  | —                | —                                    | —                | 4.0E-02                 | T                | —                                         | —                | —                           | —                |
| Pentene, 2-                                                                      | 109-68-2   | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Pentyne, 1-                                                                      | 627-19-0   | —                  | —                | —                                    | —                | 6.0E-02                 | T                | —                                         | —                | 1.8E+01                     | T                |
| Perchlorate                                                                      | 14797-73-0 | —                  | —                | —                                    | —                | 7.0E-04                 | I                | —                                         | —                | —                           | —                |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | —                  | —                | —                                    | —                | 2.3E-05                 | T                | —                                         | —                | 8.1E-05                     | T                |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDa]               | 2058-94-8  | —                  | —                | —                                    | —                | 1.2E-05                 | T                | —                                         | —                | —                           | —                |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                    | 2706-90-3  | —                  | —                | —                                    | —                | 5.0E-04                 | T                | —                                         | —                | —                           | —                |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                    | 307-24-4   | —                  | —                | —                                    | —                | 5.0E-04                 | T                | —                                         | —                | —                           | —                |
| Perfluorododecanoic acid (Dodecanoic acid, tricosafafluoro-) [PFDoA]             | 307-55-1   | —                  | —                | —                                    | —                | 1.2E-05                 | T                | —                                         | —                | 4.2E-05                     | T                |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                  | 335-67-1   | —                  | —                | —                                    | —                | 1.2E-05                 | T                | —                                         | —                | 4.1E-06                     | T                |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                   | 335-76-2   | —                  | —                | —                                    | —                | 1.5E-05                 | T                | —                                         | —                | 5.3E-05                     | T                |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafafluoro-) [PFDS] | 335-77-3   | —                  | —                | —                                    | —                | 1.2E-05                 | T                | —                                         | —                | —                           | —                |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, triddecafluoro-) [PFHxS]   | 355-46-4   | —                  | —                | —                                    | —                | 3.8E-06                 | T                | —                                         | —                | 1.3E-05                     | T                |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                       | 375-22-4   | —                  | —                | —                                    | —                | 1.0E-03                 | T                | —                                         | —                | 3.5E-03                     | T                |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]        | 375-73-5   | —                  | —                | —                                    | —                | 1.4E-03                 | T                | —                                         | —                | 4.9E-03                     | T                |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]                 | 375-85-9   | —                  | —                | —                                    | —                | 2.3E-05                 | T                | —                                         | —                | —                           | —                |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]                  | 375-95-1   | —                  | —                | —                                    | —                | 1.2E-05                 | T                | —                                         | —                | 2.8E-05                     | T                |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosafafluoro-) [PFTeDA]    | 376-06-7   | —                  | —                | —                                    | —                | 1.2E-05                 | T                | —                                         | —                | —                           | —                |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosafafluoro-) [PFTrDA]        | 72629-94-8 | —                  | —                | —                                    | —                | 1.2E-05                 | T                | —                                         | —                | —                           | —                |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA]      | 754-91-6   | —                  | —                | —                                    | —                | 1.2E-05                 | T                | —                                         | —                | 4.1E-06                     | T                |

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                          | CAS        | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-<br>day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-<br>day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|----------------------------------------------|------------|--------------------|------------------|--------------------------------------|------------------|-------------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| Perylene                                     | 198-55-0   | —                  | —                | —                                    | —                | 2.0E-02                 | T                | —                                         | —                | —                           | —                |
| Phenacetin                                   | 62-44-2    | B1                 | OEHHA            | 2.2E-03                              | OEHHA            | —                       | —                | 6.3E-07                                   | OEHHA            | —                           | —                |
| Phenanthrene                                 | 85-01-8    | D                  | I                | —                                    | —                | 3.0E-02                 | T                | —                                         | —                | —                           | —                |
| Phenanthridine                               | 229-87-8   | —                  | —                | —                                    | —                | 3.0E-03                 | T                | —                                         | —                | —                           | —                |
| Phenol                                       | 108-95-2   | IIACP              | T                | —                                    | —                | 3.0E-01                 | I                | —                                         | —                | 1.1E-02                     | T                |
| Phenol, 4-tert-butyl-                        | 98-54-4    | —                  | —                | —                                    | —                | 1.2E-01                 | T                | —                                         | —                | —                           | —                |
| Phenothiazine                                | 92-84-2    | —                  | —                | —                                    | —                | 1.1E-03                 | T                | —                                         | —                | —                           | —                |
| Phenyl mercuric acetate                      | 62-38-4    | —                  | —                | —                                    | —                | 8.0E-05                 | I                | —                                         | —                | —                           | —                |
| Phenylene diamine, m-                        | 108-45-2   | —                  | —                | —                                    | —                | 6.0E-03                 | I                | —                                         | —                | —                           | —                |
| Phenylene diamine, p-                        | 106-50-3   | —                  | —                | —                                    | —                | 1.9E-01                 | H                | —                                         | —                | —                           | —                |
| Phorate                                      | 298-02-2   | —                  | —                | —                                    | —                | 2.0E-04                 | H                | —                                         | —                | —                           | —                |
| Phosalone                                    | 2310-17-0  | —                  | —                | —                                    | —                | 2.0E-03                 | EPA —OP          | —                                         | —                | —                           | —                |
| Phosdrin (mevinphos)                         | 7786-34-7  | —                  | —                | —                                    | —                | 2.5E-05                 | EPA —OP          | —                                         | —                | —                           | —                |
| Phosmet                                      | 732-11-6   | —                  | —                | —                                    | —                | 2.0E-02                 | I                | —                                         | —                | —                           | —                |
| Phosphine                                    | 7803-51-2  | D                  | I                | —                                    | —                | 3.0E-04                 | I                | —                                         | —                | 3.0E-04                     | I                |
| Phosphotriothioic acid, S,S,S-tributyl ester | 78-48-8    | —                  | —                | 8.4E-02                              | EPA —OP          | 5.0E-04                 | A                | —                                         | —                | —                           | —                |
| Phosphorus, total*                           | 7723-14-0  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Phosphorus, white                            | 7723-14-0  | D                  | I                | —                                    | —                | 2.0E-05                 | I                | —                                         | —                | —                           | —                |
| Phthalic anhydride                           | 85-44-9    | —                  | —                | —                                    | —                | 2.0E+00                 | I                | —                                         | —                | 1.2E-01                     | H                |
| Picloram                                     | 1918-02-1  | —                  | —                | —                                    | —                | 7.0E-02                 | I                | —                                         | —                | —                           | —                |
| Picoline, 2- (2-methylpyridine)              | 109-06-8   | —                  | —                | —                                    | —                | 9.0E-03                 | T                | —                                         | —                | —                           | —                |
| Polybrominated biphenyls (PBBs)              | 67774-32-7 | B2                 | H                | 8.9E+00                              | H                | 7.0E-06                 | H                | —                                         | —                | —                           | —                |
| Polychlorinated biphenyls (PCBs)             | 1336-36-3  | B2                 | I                | 2.0E+00                              | I                | 2.0E-05                 | I                | 5.7E-04                                   | I                | —                           | —                |
| Potassium*                                   | 7440-09-7  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Primene                                      | 68955-53-3 | —                  | —                | —                                    | —                | 6.0E-03                 | T                | —                                         | —                | —                           | —                |
| Prometon (pramitol)                          | 1610-18-0  | —                  | —                | —                                    | —                | 1.5E-02                 | I                | —                                         | —                | —                           | —                |
| Prometryn                                    | 7287-19-6  | —                  | —                | —                                    | —                | 4.0E-02                 | T                | —                                         | —                | —                           | —                |
| Pronamide                                    | 23950-58-5 | —                  | —                | —                                    | —                | 7.5E-02                 | I                | —                                         | —                | —                           | —                |
| Propanal (propionaldehyde)                   | 123-38-6   | —                  | —                | —                                    | —                | 8.0E-03                 | T                | —                                         | —                | 8.0E-03                     | I                |
| Propane, 1-bromo-                            | 106-94-5   | —                  | —                | —                                    | —                | 3.6E-02                 | T                | —                                         | —                | —                           | —                |
| Propanil                                     | 709-98-8   | —                  | —                | —                                    | —                | 5.0E-03                 | I                | —                                         | —                | —                           | —                |
| Propanoic acid (propionic acid)              | 79-09-4    | —                  | —                | —                                    | —                | 5.0E-01                 | T                | —                                         | —                | —                           | —                |
| Propanol, 1-                                 | 71-23-8    | —                  | —                | —                                    | —                | 2.0E+00                 | T                | —                                         | —                | —                           | —                |
| Proparqite                                   | 2312-35-8  | —                  | —                | —                                    | —                | 2.0E-02                 | I                | —                                         | —                | —                           | —                |
| Propargyl alcohol                            | 107-19-7   | —                  | —                | —                                    | —                | 2.0E-03                 | I                | —                                         | —                | —                           | —                |
| Propazine                                    | 139-40-2   | C                  | EPA —OP          | 4.5E-02                              | EPA —OP          | 2.0E-02                 | I                | —                                         | —                | —                           | —                |
| Propham                                      | 122-42-9   | —                  | —                | —                                    | —                | 2.0E-02                 | I                | —                                         | —                | —                           | —                |
| Propionitrile (propane nitrile)              | 107-12-0   | —                  | —                | —                                    | —                | 4.0E-04                 | T                | —                                         | —                | —                           | —                |
| Propyl acetate, n-                           | 109-60-4   | —                  | —                | —                                    | —                | 9.0E-02                 | T                | —                                         | —                | —                           | —                |
| Propylbenzene, n-                            | 103-65-1   | —                  | —                | —                                    | —                | 4.0E-02                 | N                | —                                         | —                | 4.0E-01                     | T                |
| Propylene glycol                             | 57-55-6    | —                  | —                | —                                    | —                | 2.0E+01                 | PPRTV            | —                                         | —                | 3.0E-03                     | PPRTV            |
| Propylene glycol monomethyl ether            | 107-98-2   | —                  | —                | —                                    | —                | 7.0E-01                 | H                | —                                         | —                | 2.0E+00                     | I                |
| Propylene oxide                              | 75-56-9    | B2                 | I                | 2.4E-01                              | I                | —                       | —                | 3.7E-06                                   | I                | 3.0E-02                     | I                |
| Propylene tetramer                           | 6842-15-5  | —                  | —                | —                                    | —                | 1.0E-01                 | T                | —                                         | —                | 1.0E+00                     | T                |
| Prothiofos (Tokuthion)                       | 34643-46-4 | —                  | —                | —                                    | —                | 1.0E-04                 | T                | —                                         | —                | —                           | —                |
| Pyrene                                       | 129-00-0   | D                  | I                | —                                    | —                | 3.0E-02                 | I                | —                                         | —                | —                           | —                |
| Pyridine                                     | 110-86-1   | —                  | —                | —                                    | —                | 1.0E-03                 | I                | —                                         | —                | —                           | —                |
| Quinoline                                    | 91-22-5    | B2                 | I                | 3.0E+00                              | I                | —                       | —                | —                                         | —                | —                           | —                |
| Ronnel                                       | 299-84-3   | —                  | —                | —                                    | —                | 5.0E-02                 | H                | —                                         | —                | —                           | —                |
| Safrole                                      | 94-59-7    | C                  | OEHHA            | 2.2E-01                              | OEHHA            | —                       | —                | 6.3E-05                                   | OEHHA            | —                           | —                |
| Selenium                                     | 7782-49-2  | D                  | I                | —                                    | —                | 5.0E-03                 | I                | —                                         | —                | —                           | —                |
| Selenourea                                   | 630-10-4   | —                  | —                | —                                    | —                | 5.0E-03                 | H                | —                                         | —                | —                           | —                |
| Silver                                       | 7440-22-4  | D                  | I                | —                                    | —                | 5.0E-03                 | I                | —                                         | —                | —                           | —                |
| Simazine                                     | 122-34-9   | C                  | H                | 1.2E-01                              | H                | 5.0E-03                 | I                | —                                         | —                | —                           | —                |
| Sodium*                                      | 7440-23-5  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Sodium hypochlorite                          | 7681-52-9  | —                  | —                | —                                    | —                | 2.1E-01                 | T                | —                                         | —                | 3.1E-04                     | T                |

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                       | CAS         | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-<br>day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-<br>day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|-------------------------------------------|-------------|--------------------|------------------|--------------------------------------|------------------|-------------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| Sodium polyacrylate                       | 9003-04-7   | —                  | —                | —                                    | —                | 5.0E-01                 | T                | —                                         | —                | 1.0E-03                     | T                |
| Strontium                                 | 7440-24-6   | —                  | —                | —                                    | —                | 6.0E-01                 | I                | —                                         | —                | —                           | —                |
| Strychnine                                | 57-24-9     | —                  | —                | —                                    | —                | 3.0E-04                 | I                | —                                         | —                | —                           | —                |
| Styrene                                   | 100-42-5    | —                  | —                | —                                    | —                | 2.0E-01                 | I                | —                                         | —                | 4.7E-01                     | T                |
| Sulfate*                                  | 14808-79-8  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Sulfide*                                  | 18496-25-8  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Sulfolane                                 | 126-33-0    | —                  | —                | —                                    | —                | 1.3E-02                 | T                | —                                         | —                | 6.4E-03                     | T                |
| Sulfur*                                   | 7704-34-9   | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | —                           | —                |
| Sulprofos (Bolstar)                       | 35400-43-2  | —                  | —                | —                                    | —                | 3.0E-03                 | EPA —OP          | —                                         | —                | —                           | —                |
| Tebuconazole                              | 107534-96-3 | C                  | EPA —OP          | —                                    | —                | 3.0E-02                 | EPA —OP          | —                                         | —                | —                           | —                |
| Tebuthiuron                               | 34014-18-1  | —                  | —                | —                                    | —                | 7.0E-02                 | I                | —                                         | —                | —                           | —                |
| Terbufos                                  | 13071-79-9  | —                  | —                | —                                    | —                | 2.5E-05                 | H                | —                                         | —                | —                           | —                |
| Tert-amyl ethyl ether (TAE)               | 919-94-8    | —                  | —                | —                                    | —                | 4.0E-02                 | T                | —                                         | —                | —                           | —                |
| Tert-amyl-methyl ether (TAME)             | 994-05-8    | —                  | —                | —                                    | —                | 4.0E-02                 | T                | —                                         | —                | —                           | —                |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0     | —                  | —                | —                                    | —                | 7.0E-01                 | T                | —                                         | —                | 8.2E+00                     | T                |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2    | —                  | —                | —                                    | —                | 3.0E-04                 | T                | —                                         | —                | —                           | —                |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2    | —                  | —                | —                                    | —                | 3.0E-04                 | T                | —                                         | —                | —                           | —                |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3     | —                  | —                | —                                    | —                | 3.0E-04                 | I                | —                                         | —                | —                           | —                |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6    | C                  | I                | 2.6E-02                              | I                | 3.0E-02                 | I                | 7.4E-06                                   | I                | —                           | —                |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5     | LC                 | I                | 2.0E-01                              | I                | 2.0E-02                 | I                | —                                         | —                | —                           | —                |
| Tetrachloroethylene (PCE)                 | 127-18-4    | LC                 | T                | 2.1E-03                              | I                | 2.1E-02                 | T                | 3.8E-07                                   | T                | 3.7E-01                     | T                |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3   | —                  | —                | —                                    | —                | 3.0E-02                 | T                | —                                         | —                | —                           | —                |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2     | —                  | —                | —                                    | —                | 3.0E-02                 | I                | —                                         | —                | —                           | —                |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5    | —                  | —                | —                                    | —                | 3.0E-02                 | T                | —                                         | —                | —                           | —                |
| Tetrachlorvinphos (Stirophos)             | 22248-79-9  | —                  | —                | —                                    | —                | 4.2E-02                 | EPA —OP          | —                                         | —                | —                           | —                |
| Tetradifon                                | 116-29-0    | —                  | —                | —                                    | —                | 2.0E-02                 | T                | —                                         | —                | —                           | —                |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5   | —                  | —                | —                                    | —                | 5.0E-04                 | I                | —                                         | —                | —                           | —                |
| Tetraethyl lead                           | 78-00-2     | —                  | —                | —                                    | —                | 1.0E-07                 | I                | —                                         | —                | —                           | —                |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3    | —                  | —                | —                                    | —                | 1.1E-05                 | T                | —                                         | —                | —                           | —                |
| Tetraethylene glycol                      | 112-60-7    | —                  | —                | —                                    | —                | 3.3E-01                 | T                | —                                         | —                | —                           | —                |
| Tetrahydrofuran                           | 109-99-9    | SEC                | I                | 7.6E-03                              | N                | 9.0E-01                 | I                | 1.9E-06                                   | N                | 2.0E+00                     | I                |
| Tetrahydropyran                           | 142-68-7    | —                  | —                | 7.6E-03                              | T                | 2.0E-01                 | T                | 1.9E-06                                   | T                | —                           | —                |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2    | —                  | —                | —                                    | —                | 2.5E-02                 | T                | —                                         | —                | —                           | —                |
| Thallium                                  | 7440-28-0   | D                  | I                | —                                    | —                | 6.7E-05                 | T                | —                                         | —                | —                           | —                |
| Thiofanox                                 | 39196-18-4  | —                  | —                | —                                    | —                | 3.0E-04                 | H                | —                                         | —                | —                           | —                |
| Thionazin                                 | 297-97-2    | —                  | —                | —                                    | —                | 7.0E-05                 | T                | —                                         | —                | —                           | —                |
| Thiophanate-methyl                        | 23564-05-8  | —                  | —                | —                                    | —                | 8.0E-02                 | I                | —                                         | —                | —                           | —                |
| Thiram                                    | 137-26-8    | —                  | —                | —                                    | —                | 5.0E-03                 | I                | —                                         | —                | —                           | —                |
| Tin                                       | 7440-31-5   | —                  | —                | —                                    | —                | 6.0E-01                 | H                | —                                         | —                | —                           | —                |
| Titanium                                  | 7440-32-6   | —                  | —                | —                                    | —                | 5.0E+00                 | T                | —                                         | —                | —                           | —                |
| Toluene                                   | 108-88-3    | D                  | I                | —                                    | —                | 8.0E-02                 | I                | —                                         | —                | 4.1E+00                     | T                |
| Toluene diisocyanate, 2,4/2,6-            | 26471-62-5  | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | 7.0E-05                     | I                |
| Toluenediamine, 2,4-                      | 95-80-7     | B2                 | H                | 3.2E+00                              | H                | —                       | —                | —                                         | —                | —                           | —                |
| Toluenediamine, 2,6-                      | 823-40-5    | —                  | —                | —                                    | —                | 3.0E-02                 | PPRTV            | —                                         | —                | —                           | —                |
| Toluidine, o-                             | 95-53-4     | LC                 | PPRTV            | 1.6E-02                              | PPRTV            | —                       | —                | 5.1E-05                                   | OEHHA            | —                           | —                |
| Toluidine, p-                             | 106-49-0    | SEC                | PPRTV            | 3.0E-02                              | PPRTV            | —                       | —                | —                                         | —                | —                           | —                |
| Toxaphene                                 | 8001-35-2   | B2                 | I                | 1.1E+00                              | I                | 3.1E-04                 | T                | 3.2E-04                                   | I                | —                           | —                |
| TPH, TX1005, C6-C12                       | NA          | —                  | —                | —                                    | —                | 4.0E-02                 | —                | —                                         | —                | 2.0E-01                     | —                |
| TPH, TX1005, >C12-C28                     | NA          | —                  | —                | —                                    | —                | 4.0E-02                 | —                | —                                         | —                | 2.0E-01                     | —                |
| TPH, TX1005, >C12-C35                     | NA          | —                  | —                | —                                    | —                | 4.0E-02                 | —                | —                                         | —                | 2.0E-01                     | —                |
| TPH, TX1005, >C28-C35                     | NA          | —                  | —                | —                                    | —                | 4.0E-02                 | —                | —                                         | —                | 2.0E-01                     | —                |

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                               | CAS        | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-<br>day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-<br>day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|---------------------------------------------------|------------|--------------------|------------------|--------------------------------------|------------------|-------------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| TP Silvex, 2,4,5-                                 | 93-72-1    | D                  | I                | —                                    | —                | 8.0E-03                 | I                | —                                         | —                | —                           | —                |
| Triademenol                                       | 55219-65-3 | —                  | —                | —                                    | —                | 3.0E-02                 | T                | —                                         | —                | —                           | —                |
| Triallate                                         | 2303-17-5  | —                  | —                | —                                    | —                | 1.3E-02                 | I                | —                                         | —                | —                           | —                |
| Triaminotrinitrobenzene (TATB)                    | 3058-38-6  | —                  | —                | —                                    | —                | 3.0E-03                 | T                | —                                         | —                | —                           | —                |
| Tributyltin oxide                                 | 56-35-9    | D                  | I                | —                                    | —                | 3.0E-04                 | I                | —                                         | —                | —                           | —                |
| Trichloro-1,2,2-trifluoroethane, 1,1,2-           | 76-13-1    | —                  | —                | —                                    | —                | 3.0E+01                 | I                | —                                         | —                | 5.0E+00                     | PPRTV            |
| Trichlorobenzene, 1,2,3-                          | 87-61-6    | —                  | —                | —                                    | —                | 3.0E-03                 | T                | —                                         | —                | 2.0E-03                     | T                |
| Trichlorobenzene, 1,2,4-                          | 120-82-1   | LC                 | PPRTV            | 2.9E-02                              | PPRTV            | 1.0E-02                 | I                | —                                         | —                | 2.0E-03                     | PPRTV            |
| Trichlorobenzene, 1,3,5-                          | 108-70-3   | —                  | —                | —                                    | —                | 3.0E-03                 | T                | —                                         | —                | 2.0E-03                     | T                |
| Trichloroethane, 1,1,1-                           | 71-55-6    | IIACP              | T                | —                                    | —                | 2.0E+00                 | I                | —                                         | —                | 5.1E+00                     | T                |
| Trichloroethane, 1,1,2-                           | 79-00-5    | C                  | I                | 5.7E-02                              | I                | 4.0E-03                 | I                | 1.6E-05                                   | I                | —                           | —                |
| Trichloroethylene (TCE)                           | 79-01-6    | CH                 | I                | 4.6E-02                              | I                | 5.0E-04                 | I                | 4.1E-06                                   | I                | 2.0E-03                     | I                |
| Trichlorofluoromethane                            | 75-69-4    | —                  | —                | —                                    | —                | 3.0E-01                 | I                | —                                         | —                | —                           | —                |
| Trichloronate                                     | 327-98-0   | —                  | —                | —                                    | —                | 3.0E-03                 | T                | —                                         | —                | —                           | —                |
| Trichlorophenol, 2,3,4-                           | 15950-66-0 | —                  | —                | —                                    | —                | 1.0E-01                 | T                | —                                         | —                | —                           | —                |
| Trichlorophenol, 2,3,5-                           | 933-78-8   | —                  | —                | —                                    | —                | 1.0E-01                 | T                | —                                         | —                | —                           | —                |
| Trichlorophenol, 2,3,6-                           | 933-75-5   | —                  | —                | —                                    | —                | 1.0E-01                 | T                | —                                         | —                | —                           | —                |
| Trichlorophenol, 2,4,5-                           | 95-95-4    | —                  | —                | —                                    | —                | 1.0E-01                 | I                | —                                         | —                | —                           | —                |
| Trichlorophenol, 2,4,6-                           | 88-06-2    | B2                 | I                | 1.1E-02                              | I                | 1.0E-03                 | PPRTV            | 3.1E-06                                   | I                | —                           | —                |
| Trichlorophenol, 3,4,5-                           | 609-19-8   | —                  | —                | —                                    | —                | 1.0E-01                 | T                | —                                         | —                | —                           | —                |
| Trichlorophenoxyacetic acid, 2,4,5-               | 93-76-5    | —                  | —                | —                                    | —                | 1.0E-02                 | I                | —                                         | —                | —                           | —                |
| Trichloropropane, 1,1,2-                          | 598-77-6   | —                  | —                | —                                    | —                | 5.0E-03                 | I                | —                                         | —                | 3.0E-04                     | T                |
| Trichloropropane, 1,2,3-                          | 96-18-4    | LC                 | I                | 3.0E+01                              | I                | 4.0E-03                 | I                | —                                         | —                | 3.0E-04                     | I                |
| Triethanolamine                                   | 102-71-6   | —                  | —                | —                                    | —                | 2.0E-01                 | T                | —                                         | —                | 2.5E-02                     | T                |
| Triethylamine                                     | 121-44-8   | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | 7.0E-03                     | I                |
| Triethylene glycol                                | 112-27-6   | IIACP              | PPRTV            | —                                    | —                | 2.0E+00                 | PPRTV            | —                                         | —                | —                           | —                |
| Triethylphosphorothioate, O, O, O-                | 126-68-1   | —                  | —                | —                                    | —                | 8.3E-06                 | T                | —                                         | —                | —                           | —                |
| Trifluralin                                       | 1582-09-8  | C                  | I                | 7.7E-03                              | I                | 7.5E-03                 | I                | —                                         | —                | —                           | —                |
| Trimethylamine                                    | 75-50-3    | —                  | —                | —                                    | —                | —                       | —                | —                                         | —                | 7.0E-03                     | T                |
| Trimethylbenzene, 1,2,3-                          | 526-73-8   | —                  | —                | —                                    | —                | 3.4E-02                 | T                | —                                         | —                | 1.8E-01                     | T                |
| Trimethylbenzene, 1,2,4-                          | 95-63-6    | —                  | —                | —                                    | —                | 3.4E-02                 | T                | —                                         | —                | 1.8E-01                     | T                |
| Trimethylbenzene, 1,3,5-                          | 108-67-8   | —                  | —                | —                                    | —                | 3.4E-02                 | T                | —                                         | —                | 1.8E-01                     | T                |
| Trinitrobenzene, 1,3,5-                           | 99-35-4    | —                  | —                | —                                    | —                | 3.0E-02                 | I                | —                                         | —                | —                           | —                |
| Trinitrophenylmethylnitramine (tetrvl; nitramine) | 479-45-8   | —                  | —                | —                                    | —                | 2.0E-03                 | PPRTV            | —                                         | —                | —                           | —                |
| Trinitrotoluene, 2,4,6-                           | 118-96-7   | C                  | I                | 3.0E-02                              | I                | 5.0E-04                 | I                | —                                         | —                | —                           | —                |
| Tungsten (as sodium tungstate dihydride)          | 7440-33-7  | —                  | —                | —                                    | —                | 1.0E-03                 | T                | —                                         | —                | 5.3E-03                     | T                |
| Uranium (soluble salts)                           | 7440-61-1  | —                  | —                | —                                    | —                | 3.0E-03                 | I                | —                                         | —                | 4.0E-05                     | A                |
| Valeric acid (pentanoic acid)                     | 109-52-4   | —                  | —                | —                                    | —                | 5.0E-01                 | T                | —                                         | —                | 1.0E-03                     | T                |
| Vanadium                                          | 7440-62-2  | —                  | —                | —                                    | —                | 1.8E-03                 | T                | —                                         | —                | 3.0E-05                     | T                |
| Vernam                                            | 1929-77-7  | —                  | —                | —                                    | —                | 1.0E-03                 | I                | —                                         | —                | —                           | —                |
| Vinyl acetate                                     | 108-05-4   | —                  | —                | —                                    | —                | 1.0E+00                 | H                | —                                         | —                | 2.0E-01                     | I                |
| Vinyl chloride                                    | 75-01-4    | A                  | I                | 1.5E+00                              | I                | 3.0E-03                 | I                | 8.4E-06                                   | T                | 6.0E-02                     | T                |
| Vinylcyclohexane                                  | 695-12-5   | —                  | —                | —                                    | —                | 5.0E-01                 | T                | —                                         | —                | —                           | —                |
| Warfarin                                          | 81-81-2    | —                  | —                | —                                    | —                | 3.0E-04                 | I                | —                                         | —                | —                           | —                |
| Xylene, m-                                        | 108-38-3   | —                  | —                | —                                    | —                | 2.0E+00                 | H                | —                                         | —                | 6.1E-01                     | T                |
| Xylene, o-                                        | 95-47-6    | —                  | —                | —                                    | —                | 2.0E+00                 | H                | —                                         | —                | 6.1E-01                     | T                |
| Xylene, p-                                        | 106-42-3   | —                  | —                | —                                    | —                | 2.0E+00                 | H                | —                                         | —                | 6.1E-01                     | T                |
| Xylenes                                           | 1330-20-7  | D                  | I                | —                                    | —                | 2.0E-01                 | I                | —                                         | —                | 6.1E-01                     | T                |
| Zinc                                              | 7440-66-6  | D                  | I                | —                                    | —                | 3.0E-01                 | I                | —                                         | —                | —                           | —                |
| 6 C aliphatics (TPH) (>53% n-hexane content)      | NA         | —                  | —                | —                                    | —                | 6.0E-02                 | —                | —                                         | —                | 6.7E-01                     | —                |
| 6 C aliphatics (TPH) (<53% n-hexane content)      | NA         | —                  | —                | —                                    | —                | 6.0E-02                 | —                | —                                         | —                | 1.8E+01                     | —                |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)   | NA         | —                  | —                | —                                    | —                | 6.0E-02                 | —                | —                                         | —                | 6.7E-01                     | —                |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)   | NA         | —                  | —                | —                                    | —                | 6.0E-02                 | —                | —                                         | —                | 1.8E+01                     | —                |

# Toxicity Factors<sup>1</sup>

Last Revised: February 6, 2025

| Chemical of Concern                                                   | CAS | Class <sup>2</sup> | Ref <sup>3</sup> | SFo<br>(mg/kg-day) <sup>-1</sup> | Ref <sup>3</sup> | RfDo<br>(mg/kg-day) | Ref <sup>3</sup> | URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Ref <sup>3</sup> | RfC<br>(mg/m <sup>3</sup> ) | Ref <sup>3</sup> |
|-----------------------------------------------------------------------|-----|--------------------|------------------|----------------------------------|------------------|---------------------|------------------|-------------------------------------------|------------------|-----------------------------|------------------|
| >8-10 C aliphatics (TPH)                                              | NA  | —                  | —                | —                                | —                | 1.0E-01             | —                | —                                         | —                | 5.0E-01                     | —                |
| >10-12 C aliphatics (TPH)                                             | NA  | —                  | —                | —                                | —                | 1.0E-01             | —                | —                                         | —                | 5.0E-01                     | —                |
| >12-16 C aliphatics (TPH)                                             | NA  | —                  | —                | —                                | —                | 1.0E-01             | —                | —                                         | —                | 5.0E-01                     | —                |
| >16-21 C aliphatics (TPH)                                             | NA  | —                  | —                | —                                | —                | 2.0E+00             | —                | —                                         | —                | —                           | —                |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only) | NA  | —                  | —                | —                                | —                | 1.6E+00             | —                | —                                         | —                | —                           | —                |
| >21-35 C aliphatics (TPH)                                             | NA  | —                  | —                | —                                | —                | 2.0E+00             | —                | —                                         | —                | —                           | —                |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only) | NA  | —                  | —                | —                                | —                | 1.6E+00             | —                | —                                         | —                | —                           | —                |
| >7-8 C aromatics (TPH)                                                | NA  | —                  | —                | —                                | —                | 1.0E-01             | —                | —                                         | —                | 1.9E+00                     | —                |
| >8-10 C aromatics (TPH)                                               | NA  | —                  | —                | —                                | —                | 4.0E-02             | —                | —                                         | —                | 2.0E-01                     | —                |
| >10-12 C aromatics (TPH)                                              | NA  | —                  | —                | —                                | —                | 4.0E-02             | —                | —                                         | —                | 2.0E-01                     | —                |
| >12-16 C aromatics (TPH)                                              | NA  | —                  | —                | —                                | —                | 4.0E-02             | —                | —                                         | —                | 2.0E-01                     | —                |
| >16-21 C aromatics (TPH)                                              | NA  | —                  | —                | —                                | —                | 3.0E-02             | —                | —                                         | —                | —                           | —                |
| >21-35 C aromatics (TPH)                                              | NA  | —                  | —                | —                                | —                | 3.0E-02             | —                | —                                         | —                | —                           | —                |

For questions on toxicity factors, contact the Toxicology Division at 877-992-8370.

## Footnotes

- The general hierarchy of the sources for the toxicity factors is: USEPA Integrated Risk Information System (IRIS); USEPA Provisional Peer Reviewed Toxicity Values (PPRTVs); USEPA Health
- U.S. EPA 2005 carcinogen guideline class descriptors: CH = carcinogenic to humans; LC = likely to be carcinogenic to humans; SEC = suggestive evidence of carcinogenic potential; NLC = not
- Reference (Ref): A = ATSDR chronic MRL; CU = Cornell University Pesticide Management Education Program; EPA-OP = EPA Office of Pesticide Programs; H = HEAST, July, 1997; I = IRIS; MA
- The first value represents the toxicity value to be used for evaluating all residential and commercial/industrial soil pathways for cadmium; the second value represents the toxicity value to be
- The RfC value is considered protective of the carcinogenic effects of formaldehyde due to inhalation based on the TCEQ Development Support Document for Formaldehyde posted August 7,
- The first value represents the toxicity value to be used for evaluating all residential and commercial/industrial soil pathways and all commercial/industrial groundwater pathways for manganese;
- Site-specific PCLs for mercury may vary based on the pH-dependent K<sub>d</sub> value (see Figure:30 TAC §350.73(f)(1)(C)). Persons should use the Tier 1 pH 4.9-based PCLs unless a site-specific soil pH > 6.8 is demonstrated with site-specific soil samples.
- Compound with CAS# 104-35-8 nonylphenol ethoxylate in 2006 tox-trrp table has different CAS# 9016-45-9 nonylphenol ethoxylate beginning in the 2010 toxicity factors table.
- These compounds, acetic acid, ammonium polyphosphate, ammonium salts, calcium, chloride, ethylene, hydrogen chloride (hydrochloric acid), iron, limonene, d-, magnesium, phosphorus,

**SFo** - Oral Slope Factor

**RfC** - Inhalation Reference Concentration

**RfDo** - Oral Reference Dose

**URF** - Inhalation Unit Risk Factor

This table shows the toxicity factors used to calculate protective concentration levels.

end of worksheet

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                      | CAS        | Br <sub>abg</sub><br>(µg/g DW)/<br>(µg/g soil) | Br <sub>bg</sub><br>(µg/g DW)/<br>(µg/g soil) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|------------------------------------------|------------|------------------------------------------------|-----------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Acenaphthene                             | 83-32-9    | —                                              | —                                             | s                 | O    | 1.54E+02       | 6.44E-03                            | 3.60E+00                         | —                               | 4.21E-02                                 | 7.69E-06                                 | 4.24E+00             | 3.75E-03           | 4.15E+00                         |
| Acenaphthylene                           | 208-96-8   | —                                              | —                                             | s                 | O    | 1.52E+02       | 4.74E-03                            | 3.84E+00                         | —                               | 4.39E-02                                 | 7.06E-06                                 | 3.93E+00             | 2.90E-02           | 3.94E+00                         |
| Acetaldehyde                             | 75-07-0    | —                                              | —                                             | g                 | O    | 4.41E+01       | 2.75E-03                            | 4.19E-01                         | —                               | 1.24E-01                                 | 1.23E-05                                 | 1.00E+06             | 9.00E+02           | 4.30E-01                         |
| Acetate, 2-ethoxyethanol                 | 111-15-9   | —                                              | —                                             | l                 | O    | 1.32E+02       | 1.37E-04                            | 8.17E-01                         | —                               | 6.13E-02                                 | 6.70E-06                                 | 1.02E+05             | 1.93E+00           | 9.33E-01                         |
| Acetate, isoamyl                         | 123-92-2   | —                                              | —                                             | l                 | O    | 1.30E+02       | 2.04E-02                            | 1.87E+00                         | —                               | 6.01E-02                                 | 6.40E-06                                 | 1.13E+03             | 3.25E+00           | 2.27E+00                         |
| Acetate, isobutyl                        | 110-19-0   | —                                              | —                                             | l                 | O    | 1.16E+02       | 1.98E-02                            | 1.46E+00                         | —                               | 6.62E-02                                 | 6.88E-06                                 | 3.81E+03             | 1.19E+01           | 1.75E+00                         |
| Acetate, sec-butyl                       | 105-46-4   | —                                              | —                                             | l                 | O    | 1.16E+02       | 3.02E-02                            | 1.54E+00                         | —                               | 6.69E-02                                 | 6.91E-06                                 | 3.34E+03             | 1.59E+01           | 1.85E+00                         |
| Acetic acid*                             | 64-19-7    | —                                              | —                                             | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Acetone (2-propanone)                    | 67-64-1    | —                                              | —                                             | l                 | O    | 5.81E+01       | 1.61E-03                            | -2.44E-01                        | —                               | 1.24E-01                                 | 1.14E-05                                 | 6.00E+05             | 2.27E+02           | -2.35E-01                        |
| Acetone cyanohydrin                      | 75-86-5    | —                                              | —                                             | l                 | O    | 8.51E+01       | 1.34E-04                            | -2.16E-01                        | —                               | 8.12E-02                                 | 9.09E-06                                 | 1.83E+06             | 8.00E-01           | -3.45E-02                        |
| Acetonitrile                             | 75-05-8    | —                                              | —                                             | l                 | O    | 4.11E+01       | 1.21E-03                            | -3.30E-01                        | —                               | 1.28E-01                                 | 1.44E-05                                 | 2.05E+05             | 9.00E+01           | -3.40E-01                        |
| Acetophenone                             | 98-86-2    | —                                              | —                                             | l                 | O    | 1.20E+02       | 4.45E-04                            | 1.56E+00                         | —                               | 6.00E-02                                 | 8.73E-06                                 | 5.50E+03             | 3.95E-01           | 1.67E+00                         |
| Acetylaminofluorene, 2-                  | 53-96-3    | —                                              | —                                             | s                 | O    | 2.23E+02       | 7.00E-10                            | 2.63E+00                         | —                               | 4.25E-02                                 | 6.08E-06                                 | 1.66E+00             | 9.52E-11           | 2.80E+00                         |
| Acifluorfen, sodium                      | 62476-59-9 | —                                              | —                                             | s                 | O    | 3.84E+02       | 8.31E-13                            | 2.05E+00                         | —                               | 1.45E-02                                 | 4.40E-06                                 | 2.50E+05             | 9.75E-09           | 3.73E-01                         |
| Acridine                                 | 260-94-6   | —                                              | —                                             | s                 | O    | 1.79E+02       | 3.93E-06                            | 3.40E+00                         | —                               | 5.11E-02                                 | 6.66E-06                                 | 2.24E+01             | 8.96E-06           | 3.46E+00                         |
| Acrolein                                 | 107-02-8   | —                                              | —                                             | l                 | O    | 5.61E+01       | 1.83E-04                            | -2.80E-01                        | —                               | 1.05E-01                                 | 1.12E-05                                 | 2.00E+05             | 2.65E+02           | -1.00E-01                        |
| Acrylamide                               | 79-06-1    | —                                              | —                                             | s                 | O    | 7.11E+01       | 1.33E-08                            | -6.60E-01                        | —                               | 9.70E-02                                 | 1.27E-05                                 | 2.20E+06             | 7.00E-03           | -8.07E-01                        |
| Acrylic acid                             | 79-10-7    | —                                              | —                                             | l                 | O    | 7.21E+01       | 1.32E-05                            | 5.43E-02                         | —                               | 9.08E-02                                 | 1.06E-05                                 | 1.00E+06             | 3.72E+00           | 4.42E-01                         |
| Acrylonitrile                            | 107-13-1   | —                                              | —                                             | l                 | O    | 5.31E+01       | 4.57E-03                            | 4.00E-02                         | —                               | 1.22E-01                                 | 1.34E-05                                 | 7.50E+04             | 1.10E+02           | 2.09E-01                         |
| Adipic acid (hexanedioic acid)           | 124-04-9   | —                                              | —                                             | s                 | O    | 1.46E+02       | 1.80E-11                            | -6.56E+00                        | —                               | 6.13E-02                                 | 7.90E-06                                 | 7.72E+04             | 1.74E-07           | 1.25E-01                         |
| Alachlor                                 | 15972-60-8 | —                                              | —                                             | s                 | O    | 2.70E+02       | 8.62E-07                            | 2.28E+00                         | —                               | 1.94E-02                                 | 5.83E-06                                 | 2.40E+02             | 2.20E-05           | 3.37E+00                         |
| Aldicarb                                 | 116-06-3   | —                                              | —                                             | s                 | O    | 1.90E+02       | 5.82E-08                            | 1.20E+00                         | —                               | 3.05E-02                                 | 7.20E-06                                 | 6.00E+03             | 2.90E-05           | 1.36E+00                         |
| Aldicarb sulfone                         | 1646-88-4  | —                                              | —                                             | s                 | O    | 2.22E+02       | 1.10E-07                            | 2.30E-01                         | —                               | 5.55E-02                                 | 5.79E-06                                 | 8.00E+03             | 9.00E-05           | -6.66E-01                        |
| Aldrin                                   | 309-00-2   | —                                              | —                                             | s                 | O    | 3.65E+02       | 7.07E-03                            | 4.68E+00                         | —                               | 1.32E-02                                 | 4.86E-06                                 | 7.84E-02             | 1.67E-05           | 6.75E+00                         |
| Allyl alcohol                            | 107-18-6   | —                                              | —                                             | l                 | O    | 5.81E+01       | 2.08E-04                            | 5.10E-01                         | —                               | 1.14E-01                                 | 1.10E-05                                 | 3.20E+05             | 2.63E+01           | 1.70E-01                         |
| Allyl chloride                           | 107-05-1   | —                                              | —                                             | l                 | O    | 7.65E+01       | 4.57E-01                            | 1.43E+00                         | —                               | 9.80E-02                                 | 1.08E-05                                 | 3.40E+03             | 3.60E+02           | 1.93E+00                         |
| Aluminum                                 | 7429-90-5  | 1.50E-03                                       | 6.50E-04                                      | s                 | M    | 2.70E+01       | 0.00E+00                            | —                                | 2.55E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 3.29E-01                         |
| Ametryn                                  | 834-12-8   | —                                              | —                                             | s                 | OB   | 2.27E+02       | 7.33E-08                            | 2.89E+00                         | —                               | 4.24E-02                                 | 5.70E-06                                 | 1.85E+02             | 1.81E-07           | 2.88E+00                         |
| Amino-2,6-dinitrotoluene, 4-             | 19406-51-0 | —                                              | —                                             | s                 | O    | 1.97E+02       | 1.74E-07                            | 2.56E+00                         | —                               | 5.60E-02                                 | 7.31E-06                                 | 3.64E+01             | 5.86E-07           | 2.62E+00                         |
| Amino-4,6-dinitrotoluene, 2-             | 35572-78-2 | —                                              | —                                             | s                 | O    | 1.97E+02       | 1.19E-07                            | 2.75E+00                         | —                               | 5.60E-02                                 | 7.30E-06                                 | 1.73E+01             | 1.91E-07           | 2.80E+00                         |
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine) | 92-67-1    | —                                              | —                                             | s                 | O    | 1.69E+02       | 1.84E-06                            | 3.24E+00                         | —                               | 5.25E-02                                 | 6.82E-06                                 | 7.14E+01             | 1.42E-05           | 3.24E+00                         |
| Aminopyridine, 4-                        | 504-24-5   | —                                              | —                                             | s                 | O    | 9.41E+01       | 2.44E-07                            | -3.22E-01                        | —                               | 8.02E-02                                 | 1.08E-05                                 | 7.66E+04             | 2.00E-03           | -1.12E-01                        |
| Ammonia                                  | 7664-41-7  | —                                              | —                                             | g                 | I    | 1.70E+01       | 1.36E-02                            | 4.90E-01                         | —                               | 2.59E-01                                 | 6.93E-05                                 | 5.31E+05             | 7.47E+03           | 2.29E-01                         |
| Ammonium polyphosphate*                  | 6833-79-9  | —                                              | —                                             | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Ammonium salts*                          | Ammonium   | —                                              | —                                             | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Aniline                                  | 62-53-3    | —                                              | —                                             | l                 | O    | 9.31E+01       | 5.82E-05                            | 9.60E-01                         | —                               | 7.00E-02                                 | 8.30E-06                                 | 3.60E+04             | 6.69E-01           | 1.08E+00                         |
| Anthracene                               | 120-12-7   | —                                              | —                                             | s                 | O    | 1.78E+02       | 4.61E-03                            | 4.37E+00                         | —                               | 3.24E-02                                 | 7.74E-06                                 | 4.34E-02             | 2.55E-05           | 4.34E+00                         |
| Anthraquinone, 9,10-                     | 84-65-1    | —                                              | —                                             | s                 | O    | 2.08E+02       | 3.58E-06                            | 3.07E+00                         | —                               | 4.81E-02                                 | 6.26E-06                                 | 1.22E-01             | 3.83E-08           | 3.12E+00                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                           | CAS        | Br <sub>abg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Br <sub>bg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-----------------------------------------------|------------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Antimony                                      | 7440-36-0  | 7.00E-02                                         | 3.00E-02                                        | s                 | M    | 1.22E+02       | 0.00E+00                            | —                                | 1.65E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| Aramite                                       | 140-57-8   | —                                                | —                                               | l                 | O    | 3.35E+02       | —                                   | 4.00E+00                         | —                               | 4.23E-02                                 | 4.45E-06                                 | —                    | 1.23E-04           | 4.82E+00                         |
| Arsenic                                       | 7440-38-2  | 1.00E-02                                         | 8.00E-03                                        | s                 | M    | 7.49E+01       | 0.00E+00                            | —                                | 1.40E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 6.79E-01                         |
| Arsine                                        | 7784-42-1  | —                                                | —                                               | g                 | I    | 7.79E+01       | 2.41E-01                            | —                                | —                               | —                                        | —                                        | 2.00E+05             | 1.13E+04           | —                                |
| Atrazine                                      | 1912-24-9  | —                                                | —                                               | s                 | O    | 2.16E+02       | 1.09E-07                            | 2.20E+00                         | —                               | 5.64E-02                                 | 5.58E-06                                 | 3.00E+01             | 3.00E-07           | 2.82E+00                         |
| Azinphos-methyl (guthion)                     | 86-50-0    | —                                                | —                                               | s                 | O    | 3.17E+02       | 8.80E-11                            | 2.40E+00                         | —                               | 4.11E-02                                 | 5.34E-06                                 | 9.00E-02             | 4.70E-09           | 2.50E+00                         |
| Azobenzene                                    | 103-33-3   | —                                                | —                                               | l                 | O    | 1.82E+02       | 1.89E-03                            | 4.73E+00                         | —                               | 4.96E-02                                 | 6.36E-06                                 | 1.60E+00             | 3.02E-04           | 4.77E+00                         |
| Barium                                        | 7440-39-3  | 4.90E-02                                         | 1.50E-02                                        | s                 | M    | 1.37E+02       | 0.00E+00                            | -                                | 1.04E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| Bayleton                                      | 43121-43-3 | —                                                | —                                               | s                 | O    | 2.94E+02       | 2.76E-08                            | 2.31E+00                         | —                               | 4.00E-02                                 | 5.25E-06                                 | 4.74E+01             | 8.13E-08           | 2.47E+00                         |
| Benefin (benfluralin)                         | 1861-40-1  | —                                                | —                                               | s                 | O    | 3.35E+02       | 7.77E-06                            | 5.22E+00                         | —                               | 3.60E-02                                 | 4.92E-06                                 | 5.09E+00             | 2.16E-06           | 5.25E+00                         |
| Benomyl                                       | 17804-35-2 | —                                                | —                                               | s                 | O    | 2.90E+02       | 2.08E-07                            | 1.16E+00                         | —                               | 4.49E-02                                 | 4.46E-06                                 | 2.90E+00             | 7.50E-09           | 1.37E+00                         |
| Benz-a-anthracene                             | 56-55-3    | —                                                | —                                               | s                 | O    | 2.28E+02       | 1.39E-04                            | 5.55E+00                         | —                               | 5.10E-02                                 | 9.00E-06                                 | 1.00E-02             | 1.54E-07           | 5.52E+00                         |
| Benzaldehyde                                  | 100-52-7   | —                                                | —                                               | l                 | O    | 1.06E+02       | 2.04E-03                            | 1.77E+00                         | —                               | 7.28E-02                                 | 8.67E-06                                 | 3.58E+03             | 1.26E+00           | 1.90E+00                         |
| Benzene                                       | 71-43-2    | —                                                | —                                               | l                 | O    | 7.81E+01       | 2.27E-01                            | 1.82E+00                         | —                               | 8.80E-02                                 | 9.80E-06                                 | 1.77E+03             | 9.50E+01           | 1.99E+00                         |
| Benzenedicarbonitrile, 1,3-                   | 626-17-5   | —                                                | —                                               | s                 | O    | 1.28E+02       | 1.88E-06                            | 8.79E-01                         | —                               | 6.71E-02                                 | 7.62E-06                                 | 1.28E+04             | 3.43E-03           | 1.03E+00                         |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | —                                                | —                                               | l                 | O    | 4.47E+02       | 6.07E-05                            | 1.04E+01                         | —                               | 2.52E-02                                 | 3.24E-06                                 | 1.17E-03             | 3.76E-12           | 1.06E+01                         |
| Benzenethiol                                  | 108-98-5   | —                                                | —                                               | l                 | O    | 1.10E+02       | 1.83E-02                            | 1.32E+00                         | —                               | 7.60E-02                                 | 8.68E-06                                 | 7.60E+02             | 2.40E+00           | 2.69E+00                         |
| Benzidine                                     | 92-87-5    | —                                                | —                                               | s                 | O    | 1.84E+02       | 1.62E-09                            | 1.32E+00                         | —                               | 3.40E-02                                 | 1.50E-05                                 | 5.20E+02             | 8.36E-08           | 1.34E+00                         |
| Benzo-a-pyrene                                | 50-32-8    | —                                                | —                                               | s                 | O    | 2.52E+02       | 4.70E-05                            | 5.98E+00                         | —                               | 4.30E-02                                 | 9.00E-06                                 | 1.62E-03             | 4.89E-09           | 6.11E+00                         |
| Benzo-b-fluoranthene                          | 205-99-2   | —                                                | —                                               | s                 | O    | 2.52E+02       | 4.99E-04                            | 6.08E+00                         | —                               | 2.26E-02                                 | 5.56E-06                                 | 1.50E-03             | 8.06E-08           | 6.11E+00                         |
| Benzo-e-pyrene                                | 192-97-2   | —                                                | —                                               | s                 | O    | 2.52E+02       | 2.38E-05                            | 6.59E+00                         | —                               | 4.05E-02                                 | 5.49E-06                                 | 8.60E-04             | 7.26E-10           | 6.70E+00                         |
| Benzo-g,h,i-perylene                          | 191-24-2   | —                                                | —                                               | s                 | O    | 2.76E+02       | 5.82E-06                            | 6.20E+00                         | —                               | 4.90E-02                                 | 5.65E-05                                 | 2.60E-04             | 1.00E-10           | 6.70E+00                         |
| Benzoic acid                                  | 65-85-0    | —                                                | —                                               | s                 | OA   | 1.22E+02       | 1.39E-05                            | -3.01E-01                        | —                               | 5.36E-02                                 | 7.97E-06                                 | 3.50E+03             | 6.51E-03           | 1.87E+00                         |
| Benzo-j-fluoranthene                          | 205-82-3   | —                                                | —                                               | s                 | O    | 2.52E+02       | 4.63E-04                            | 5.72E+00                         | —                               | 4.15E-02                                 | 5.48E-06                                 | 2.50E-03             | 8.39E-08           | 6.11E+00                         |
| Benzo-k-fluoranthene                          | 207-08-9   | —                                                | —                                               | s                 | O    | 2.52E+02       | 4.45E-07                            | 6.09E+00                         | —                               | 2.26E-02                                 | 5.56E-06                                 | 5.50E-04             | 9.59E-11           | 6.11E+00                         |
| Benzophenone                                  | 119-61-9   | —                                                | —                                               | s                 | O    | 1.82E+02       | 1.05E-04                            | 3.40E+00                         | —                               | 5.07E-02                                 | 6.03E-06                                 | 3.43E+01             | 3.61E-04           | 3.46E+00                         |
| Benzotrichloride                              | 98-07-7    | —                                                | —                                               | l                 | O    | 1.95E+02       | 2.03E-02                            | 3.16E+00                         | —                               | 5.91E-02                                 | 7.02E-06                                 | 1.00E+02             | 1.90E-01           | 3.90E+00                         |
| Benzoyl peroxide                              | 94-36-0    | —                                                | —                                               | s                 | O    | 2.42E+02       | 8.12E-06                            | 3.02E+00                         | —                               | 4.49E-02                                 | 5.48E-06                                 | 8.44E+00             | 5.17E-06           | 3.08E+00                         |
| Benzyl alcohol                                | 100-51-6   | —                                                | —                                               | l                 | O    | 1.08E+02       | 1.62E-05                            | 1.08E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 4.00E+04             | 1.06E-01           | 1.08E+00                         |
| Benzyl chloride                               | 100-44-7   | —                                                | —                                               | l                 | O    | 1.27E+02       | 1.66E-02                            | 2.26E+00                         | —                               | 7.50E-02                                 | 7.80E-06                                 | 4.93E+02             | 1.20E+00           | 2.79E+00                         |
| Benzyl dichloride                             | 98-87-3    | —                                                | —                                               | l                 | O    | 1.61E+02       | 8.28E-03                            | 2.39E+00                         | —                               | 6.14E-02                                 | 7.62E-06                                 | 2.09E+02             | 1.96E-01           | 2.92E+00                         |
| Beryllium                                     | 7440-41-7  | 3.60E-03                                         | 1.50E-03                                        | s                 | M    | 9.01E+00       | 0.00E+00                            | —                                | 1.36E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 5.71E-01                         |
| Biphenyl, 1,1-                                | 92-52-4    | —                                                | —                                               | s                 | O    | 1.54E+02       | 1.25E-02                            | 3.71E+00                         | —                               | 5.73E-02                                 | 6.71E-06                                 | 7.50E+00             | 2.94E-02           | 3.76E+00                         |
| Biphenyl, 1,1'-, 2-phenoxy-                   | 6738-04-1  | —                                                | —                                               | s                 | O    | 2.46E+02       | 2.82E-03                            | 6.18E+00                         | —                               | 4.08E-02                                 | 5.09E-06                                 | 1.92E-02             | 4.03E-06           | 6.29E+00                         |
| Biquinoline, 2,2'-                            | 119-91-5   | —                                                | —                                               | s                 | O    | 2.56E+02       | 2.85E-09                            | 3.96E+00                         | —                               | 4.18E-02                                 | 5.65E-06                                 | 1.70E+00             | 3.45E-10           | 4.02E+00                         |
| Bis (2-chloroethoxy) methane                  | 111-91-1   | —                                                | —                                               | l                 | O    | 1.73E+02       | 1.25E-03                            | 2.49E+00                         | —                               | 5.82E-02                                 | 7.11E-06                                 | 1.35E+03             | 1.78E-01           | 2.53E+00                         |
| Bis (2-chloroethyl) ether                     | 111-44-4   | —                                                | —                                               | l                 | O    | 1.43E+02       | 8.90E-04                            | 1.19E+00                         | —                               | 6.92E-02                                 | 7.53E-06                                 | 1.02E+04             | 1.34E+00           | 1.56E+00                         |
| Bis (2-chloro-1-methylethyl) ether            | 108-60-1   | —                                                | —                                               | l                 | O    | 1.71E+02       | 4.16E-03                            | 2.50E+00                         | —                               | 6.00E-02                                 | 6.40E-06                                 | 1.70E+03             | 8.50E-01           | 2.58E+00                         |

## Chemical/Physical Properties

**Last Revised: March 1, 2022**

| Chemical of Concern                                        | CAS       | Br <sub>abg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Br <sub>bg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm²/s) | D <sub>wat</sub><br>(cm²/s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|------------------------------------------------------------|-----------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|-----------------------------|-----------------------------|----------------------|--------------------|----------------------------------|
| Bis (2-chloromethyl) ether                                 | 542-88-1  | —                                                | —                                               | l                 | O    | 1.15E+02       | 4.99E-03                            | 8.00E-02                         | —                               | 8.32E-02                    | 9.59E-06                    | 3.80E+04             | 3.00E+01           | 5.75E-01                         |
| Bis (2-ethyl-hexyl) phthalate                              | 117-81-7  | —                                                | —                                               | l                 | O    | 3.91E+02       | 4.57E-04                            | 5.83E+00                         | —                               | 3.51E-02                    | 3.66E-06                    | 3.00E-01             | 6.45E-06           | 8.39E+00                         |
| Bismuth                                                    | 7440-69-9 | —                                                | —                                               | s                 | M    | 2.09E+02       | —                                   | —                                | 7.30E-01                        | —                           | —                           | —                    | —                  | —                                |
| Bisphenol A                                                | 80-05-7   | —                                                | —                                               | —                 | O    | 2.28E+02       | 2.18E-10                            | 2.74E+00                         | —                               | 5.09E-02                    | 5.89E-06                    | 1.00E+03             | 7.25E-07           | 3.32E+00                         |
| Boron                                                      | 7440-42-8 | —                                                | —                                               | s                 | I    | 1.08E+01       | 0.00E+00                            | —                                | —                               | —                           | —                           | —                    | —                  | —                                |
| Bromacil                                                   | 314-40-9  | —                                                | —                                               | s                 | O    | 2.61E+02       | 9.94E-09                            | 2.11E+00                         | —                               | 4.58E-02                    | 5.80E-06                    | 7.64E+02             | 6.32E-07           | 2.25E+00                         |
| Bromo-2-chloroethane, 1-                                   | 107-04-0  | —                                                | —                                               | l                 | O    | 1.43E+02       | 3.79E-02                            | 1.58E+00                         | —                               | 8.35E-02                    | 9.83E-06                    | 4.93E+03             | 2.38E+01           | 1.90E+00                         |
| Bromobenzene                                               | 108-86-1  | —                                                | —                                               | l                 | O    | 1.57E+02       | 8.38E-02                            | 2.38E+00                         | —                               | 7.05E-02                    | 8.54E-06                    | 2.98E+02             | 2.91E+00           | 2.91E+00                         |
| Bromodichloromethane                                       | 75-27-4   | —                                                | —                                               | l                 | O    | 1.64E+02       | 1.32E-01                            | 1.74E+00                         | —                               | 2.98E-02                    | 1.06E-05                    | 4.50E+03             | 5.84E+01           | 1.61E+00                         |
| Bromoform                                                  | 75-25-2   | —                                                | —                                               | l                 | O    | 2.53E+02       | 2.56E-02                            | 1.94E+00                         | —                               | 1.49E-02                    | 1.03E-05                    | 3.20E+03             | 5.60E+00           | 1.79E+00                         |
| Bromomethane                                               | 74-83-9   | —                                                | —                                               | g                 | O    | 9.49E+01       | 5.90E-01                            | 1.02E+00                         | —                               | 7.28E-02                    | 1.21E-05                    | 1.52E+04             | 1.64E+03           | 1.18E+00                         |
| Bromophenyl phenylether, 4-                                | 101-55-3  | —                                                | —                                               | l                 | O    | 2.49E+02       | 9.66E-03                            | 5.16E+00                         | —                               | 4.75E-02                    | 6.28E-06                    | 8.25E-01             | 5.85E-04           | 5.25E+00                         |
| Butadiene, 1,3-                                            | 106-99-0  | —                                                | —                                               | g                 | O    | 5.41E+01       | 2.61E+00                            | 2.11E+00                         | —                               | 1.79E-01                    | 1.02E-05                    | 7.35E+02             | 2.11E+03           | 2.03E+00                         |
| Butadiene, 2-methyl-1,3- (isoprene)                        | 78-79-5   | —                                                | —                                               | l                 | O    | 6.81E+01       | 1.20E+00                            | 1.82E+00                         | —                               | 8.78E-02                    | 8.10E-06                    | 1.11E+03             | 3.58E+02           | 2.20E+00                         |
| Butanal (butyraldehyde)                                    | 123-72-8  | —                                                | —                                               | l                 | O    | 7.21E+01       | 5.40E-03                            | 7.44E-01                         | —                               | 8.90E-02                    | 9.48E-06                    | 4.67E+04             | 6.35E+01           | 8.40E-01                         |
| Butane, 2,3-dimethyl-                                      | 79-29-8   | —                                                | —                                               | l                 | O    | 8.62E+01       | 5.45E+01                            | 3.14E+00                         | —                               | 7.40E-02                    | 6.94E-06                    | 1.82E+01             | 2.11E+02           | 3.86E+00                         |
| Butanoic acid (butyric acid)                               | 107-92-6  | —                                                | —                                               | l                 | O    | 8.81E+01       | 7.86E-06                            | -2.26E+00                        | —                               | 7.80E-02                    | 9.25E-06                    | 8.96E+04             | 2.80E-01           | 1.02E+00                         |
| Butanol, 2-                                                | 78-92-2   | —                                                | —                                               | l                 | O    | 7.41E+01       | 5.29E-04                            | 7.35E-01                         | —                               | 8.47E-02                    | 8.60E-06                    | 9.91E+04             | 1.29E+01           | 8.29E-01                         |
| Butanol, 2-methyl-1-                                       | 137-32-6  | —                                                | —                                               | l                 | O    | 8.82E+01       | 5.70E-04                            | 1.12E+00                         | —                               | 7.40E-02                    | 7.80E-06                    | 3.25E+04             | 3.84E+00           | 1.31E+00                         |
| Butanol, 2-methyl-2-                                       | 75-85-4   | —                                                | —                                               | l                 | O    | 8.81E+01       | 1.64E-03                            | 1.09E+00                         | —                               | 7.65E-02                    | 7.72E-06                    | 3.59E+04             | 1.22E+01           | 1.28E+00                         |
| Butanol, n-                                                | 71-36-3   | —                                                | —                                               | l                 | O    | 7.41E+01       | 3.55E-04                            | 7.70E-01                         | —                               | 8.00E-02                    | 9.30E-06                    | 7.47E+04             | 6.54E+00           | 8.41E-01                         |
| Butene, 1-                                                 | 106-98-9  | —                                                | —                                               | g                 | O    | 5.61E+01       | 9.53E+00                            | 2.02E+00                         | —                               | 9.88E-02                    | 8.42E-06                    | 2.40E+02             | 1.61E+03           | 2.45E+00                         |
| Butene, cis-2-                                             | 590-18-1  | —                                                | —                                               | g                 | O    | 5.61E+01       | 6.56E+00                            | 1.95E+00                         | —                               | 9.92E-02                    | 8.50E-06                    | 3.48E+02             | 1.46E+03           | 2.37E+00                         |
| Butene, trans-2-                                           | 624-64-6  | —                                                | —                                               | g                 | O    | 5.61E+01       | 6.56E+00                            | 1.95E+00                         | —                               | 9.92E-02                    | 8.50E-06                    | 3.48E+02             | 1.46E+03           | 2.37E+00                         |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2  | —                                                | —                                               | l                 | O    | 1.18E+02       | 2.11E-05                            | 1.09E+00                         | —                               | 6.30E-02                    | 7.46E-06                    | 3.43E+04             | 1.12E-01           | 1.28E+00                         |
| Butyl acetate                                              | 123-86-4  | —                                                | —                                               | l                 | O    | 1.16E+02       | 1.11E-02                            | 1.42E+00                         | —                               | 6.63E-02                    | 7.45E-06                    | 5.75E+03             | 1.00E+01           | 1.70E+00                         |
| Butyl acrylate                                             | 141-32-2  | —                                                | —                                               | l                 | O    | 1.28E+02       | 1.16E-02                            | 1.84E+00                         | —                               | 6.00E-02                    | 7.13E-06                    | 1.43E+03             | 2.43E+00           | 2.22E+00                         |
| Butyl benzyl phthalate                                     | 85-68-7   | —                                                | —                                               | l                 | O    | 3.12E+02       | 7.94E-05                            | 4.14E+00                         | —                               | 1.74E-02                    | 4.83E-06                    | 2.90E+00             | 1.20E-05           | 4.84E+00                         |
| Butyl ether, n- (dibutyl ether)                            | 142-96-1  | —                                                | —                                               | l                 | O    | 1.30E+02       | 4.84E-02                            | 2.59E+00                         | —                               | 5.65E-02                    | 6.40E-06                    | 4.90E+02             | 3.33E+00           | 3.18E+00                         |
| Butyl methacrylate                                         | 97-88-1   | —                                                | —                                               | l                 | O    | 1.42E+02       | 1.98E-02                            | 2.39E+00                         | —                               | 5.69E-02                    | 6.18E-06                    | 3.68E+02             | 9.40E-01           | 2.92E+00                         |
| Butylate                                                   | 2008-41-5 | —                                                | —                                               | l                 | O    | 2.17E+02       | 3.50E-03                            | 2.10E+00                         | —                               | 4.89E-02                    | 5.14E-06                    | 4.60E+01             | 1.30E-02           | 3.85E+00                         |
| Butylbenzene, n-                                           | 104-51-8  | —                                                | —                                               | l                 | O    | 1.34E+02       | 5.57E-01                            | 3.48E+00                         | —                               | 5.70E-02                    | 6.74E-06                    | 1.08E+01             | 8.14E-01           | 4.29E+00                         |
| Butylbenzene, sec-                                         | 135-98-8  | —                                                | —                                               | l                 | O    | 1.34E+02       | 5.07E-01                            | 3.32E+00                         | —                               | 5.75E-02                    | 6.75E-06                    | 1.81E+01             | 1.25E+00           | 4.09E+00                         |
| Butylbenzene, tert-                                        | 98-06-6   | —                                                | —                                               | l                 | O    | 1.34E+02       | 8.56E-01                            | 3.39E+00                         | —                               | 5.84E-02                    | 6.76E-06                    | 1.51E+01             | 1.76E+00           | 4.18E+00                         |
| Cacodylic acid                                             | 75-60-5   | —                                                | —                                               | s                 | O    | 1.38E+02       | 0.00E+00                            | 3.80E-01                         | —                               | —                           | —                           | 2.00E+06             | 0.00E+00           | 0.00E+00                         |
| Cadmium                                                    | 7440-43-9 | 1.40E-01                                         | 6.40E-02                                        | s                 | M    | 1.12E+02       | 0.00E+00                            | —                                | 1.18E+00                        | 0.00E+00                    | 0.00E+00                    | 0.00E+00             | 0.00E+00           | -7.10E-02                        |
| Calcium*                                                   | 7440-70-2 | —                                                | —                                               | —                 | —    | —              | —                                   | —                                | —                               | —                           | —                           | —                    | —                  | —                                |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                                   | CAS        | Br <sub>abg</sub><br>((μg/g DW)/<br>(μg/g soil)) | Br <sub>bg</sub><br>((μg/g DW)/<br>(μg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-------------------------------------------------------|------------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Caprolactam                                           | 105-60-2   | —                                                | —                                               | s                 | O    | 1.13E+02       | 2.19E-08                            | 1.68E+00                         | —                               | 6.71E-02                                 | 8.45E-06                                 | 3.40E+04             | 1.20E-04           | 5.62E-01                         |
| Captan                                                | 133-06-2   | —                                                | —                                               | s                 | O    | 3.01E+02       | 2.99E-04                            | 3.81E+00                         | —                               | 1.83E-02                                 | 4.90E-06                                 | 5.00E-01             | 7.50E-06           | 1.84E+00                         |
| Carbaryl                                              | 63-25-2    | —                                                | —                                               | s                 | O    | 2.01E+02       | 5.32E-07                            | 2.37E+00                         | —                               | 2.78E-02                                 | 5.60E-06                                 | 3.00E+01             | 1.36E-06           | 2.35E+00                         |
| Carbazole                                             | 86-74-8    | —                                                | —                                               | s                 | O    | 1.67E+02       | 3.38E-03                            | 3.39E+00                         | —                               | 3.90E-02                                 | 7.03E-06                                 | 7.21E-01             | 2.66E-04           | 3.23E+00                         |
| Carbofuran                                            | 1563-66-2  | —                                                | —                                               | s                 | O    | 2.21E+02       | 1.62E-07                            | 1.46E+00                         | —                               | 5.35E-02                                 | 5.40E-06                                 | 7.00E+02             | 8.30E-06           | 2.30E+00                         |
| Carbon disulfide                                      | 75-15-0    | —                                                | —                                               | l                 | O    | 7.61E+01       | 6.13E-01                            | 1.72E+00                         | —                               | 1.04E-01                                 | 1.00E-05                                 | 2.30E+03             | 3.40E+02           | 1.94E+00                         |
| Carbon tetrachloride                                  | 56-23-5    | —                                                | —                                               | l                 | O    | 1.54E+02       | 1.20E+00                            | 2.27E+00                         | —                               | 7.80E-02                                 | 8.80E-06                                 | 8.05E+02             | 1.12E+02           | 2.44E+00                         |
| Carbophenothion                                       | 786-19-6   | —                                                | —                                               | l                 | O    | 3.43E+02       | 1.66E-04                            | 5.07E+00                         | —                               | 3.77E-02                                 | 5.00E-06                                 | 3.90E+00             | 3.45E-05           | 5.10E+00                         |
| Carbosulfan                                           | 55285-14-8 | —                                                | —                                               | l                 | O    | 3.81E+02       | 2.15E-05                            | 4.41E+00                         | —                               | 3.76E-02                                 | 3.88E-06                                 | 3.00E-01             | 3.10E-07           | 5.57E+00                         |
| Carboxin                                              | 5234-68-4  | —                                                | —                                               | s                 | O    | 2.35E+02       | 2.77E-08                            | 2.93E+00                         | —                               | 4.48E-02                                 | 6.14E-06                                 | 2.24E+01             | 4.82E-08           | 3.02E+00                         |
| Chloral                                               | 75-87-6    | —                                                | —                                               | l                 | O    | 1.47E+02       | 2.66E-05                            | 8.02E-01                         | —                               | 3.85E-02                                 | 9.70E-06                                 | 8.30E+06             | 3.50E+01           | 1.19E+00                         |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)    | 302-17-0   | —                                                | —                                               | l                 | O    | 1.65E+02       | 4.91E-09                            | 7.27E-01                         | —                               | 7.43E-02                                 | 9.16E-06                                 | 1.80E+06             | 9.79E-04           | 3.30E-01                         |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid) | 133-90-4   | —                                                | —                                               | s                 | O    | 2.06E+02       | 3.49E-08                            | 2.32E+00                         | —                               | 5.71E-02                                 | 7.46E-06                                 | 6.26E+03             | 1.94E-05           | 2.48E+00                         |
| Chlordane (technical)                                 | 12789-03-6 | —                                                | —                                               | s                 | O    | 4.10E+02       | 2.02E-03                            | 5.08E+00                         | —                               | 1.18E-02                                 | 4.37E-06                                 | 5.60E-02             | 1.00E-05           | 6.60E+00                         |
| Chlordane, cis- (alpha chlordane)                     | 5103-71-9  | —                                                | —                                               | l                 | O    | 4.10E+02       | 4.11E-03                            | 6.85E+00                         | —                               | 3.32E-02                                 | 4.66E-06                                 | 4.64E-02             | 8.51E-06           | 6.97E+00                         |
| Chlordane, trans- (gamma chlordane)                   | 5103-74-2  | —                                                | —                                               | s                 | O    | 4.10E+02       | 4.11E-03                            | 5.59E+00                         | —                               | 3.32E-02                                 | 4.65E-06                                 | 2.28E-02             | 4.17E-06           | 6.97E+00                         |
| Chlorfenvinphos                                       | 470-90-6   | —                                                | —                                               | l                 | O    | 3.60E+02       | 2.31E-08                            | 3.11E+00                         | —                               | —                                        | —                                        | 1.45E+02             | 1.70E-07           | 4.15E+00                         |
| Chloride*                                             | 16887-00-6 | —                                                | —                                               | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Chlorine                                              | 7782-50-5  | —                                                | —                                               | g                 | I    | 7.09E+01       | 2.86E+00                            | —                                | —                               | 1.20E-01                                 | 1.48E-05                                 | 7.00E+03             | 5.17E+03           | 8.49E-01                         |
| Chloro-1,3-butadiene, 2-                              | 126-99-8   | —                                                | —                                               | l                 | O    | 8.85E+01       | 1.33E+00                            | 2.00E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 6.30E+02             | 2.12E+02           | 2.53E+00                         |
| Chloro-2-propanol, 1-                                 | 127-00-4   | —                                                | —                                               | s                 | O    | 9.55E+01       | 9.64E-05                            | 8.29E-01                         | —                               | 8.28E-02                                 | 9.65E-06                                 | 1.10E+05             | 2.05E+00           | 9.48E-01                         |
| Chloro-3-methylphenol, 4-                             | 59-50-7    | —                                                | —                                               | s                 | O    | 1.43E+02       | 1.40E-05                            | 2.94E+00                         | —                               | 6.46E-02                                 | 8.01E-06                                 | 5.43E+03             | 9.75E-03           | 2.99E+00                         |
| Chloroaniline, p-                                     | 106-47-8   | —                                                | —                                               | s                 | O    | 1.28E+02       | 4.86E-05                            | 1.82E+00                         | —                               | 4.83E-02                                 | 1.01E-05                                 | 3.90E+03             | 2.35E-02           | 1.72E+00                         |
| Chlorobenzene                                         | 108-90-7   | —                                                | —                                               | l                 | O    | 1.13E+02       | 1.82E-01                            | 2.33E+00                         | —                               | 7.30E-02                                 | 8.70E-06                                 | 5.02E+02             | 1.21E+01           | 2.64E+00                         |
| Chlorobenzilate                                       | 510-15-6   | —                                                | —                                               | s                 | O    | 3.25E+02       | 3.78E-06                            | 2.90E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.30E+01             | 2.20E-06           | 3.99E+00                         |
| Chlorobromomethane (bromochloromethane)               | 74-97-5    | —                                                | —                                               | l                 | O    | 1.29E+02       | 3.69E-02                            | 1.44E+00                         | —                               | 9.65E-02                                 | 1.12E-05                                 | 2.04E+04             | 1.06E+02           | 1.32E+00                         |
| Chlorodifluoromethane                                 | 75-45-6    | —                                                | —                                               | g                 | O    | 8.65E+01       | 1.22E+00                            | 7.87E-01                         | —                               | 1.13E-01                                 | 1.32E-05                                 | 2.90E+03             | 7.83E+03           | 8.94E-01                         |
| Chloroethane (ethyl chloride)                         | 75-00-3    | —                                                | —                                               | l                 | O    | 6.45E+01       | 2.12E-01                            | 1.25E+00                         | —                               | 1.50E-01                                 | 1.18E-05                                 | 2.00E+04             | 1.20E+03           | 1.58E+00                         |
| Chloroethanol, 2-                                     | 107-07-3   | —                                                | —                                               | l                 | O    | 8.05E+01       | 3.23E-05                            | 2.42E-01                         | —                               | 9.60E-02                                 | 1.11E-05                                 | 5.51E+05             | 2.29E+00           | 2.06E-01                         |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether)     | 110-75-8   | —                                                | —                                               | l                 | O    | 1.07E+02       | 3.02E-02                            | 1.57E+00                         | —                               | 7.60E-02                                 | 8.55E-06                                 | 5.02E+03             | 2.60E+01           | 1.88E+00                         |
| Chloroform                                            | 67-66-3    | —                                                | —                                               | l                 | O    | 1.19E+02       | 1.53E-01                            | 1.67E+00                         | —                               | 1.04E-01                                 | 1.00E-05                                 | 7.92E+03             | 1.98E+02           | 1.52E+00                         |
| Chlorohexane, 1-                                      | 544-10-5   | —                                                | —                                               | l                 | O    | 1.21E+02       | 9.98E-01                            | 2.95E+00                         | —                               | 6.40E-02                                 | 7.27E-06                                 | 5.38E+01             | 8.22E+00           | 3.63E+00                         |
| Chloromethane (methyl chloride)                       | 74-87-3    | —                                                | —                                               | g                 | O    | 5.05E+01       | 1.44E+00                            | 7.78E-01                         | —                               | 1.26E-01                                 | 6.50E-06                                 | 7.25E+03             | 3.77E+03           | 1.09E+00                         |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-)     | 90-13-1    | —                                                | —                                               | l                 | O    | 1.63E+02       | 6.33E-03                            | 3.98E+00                         | —                               | 5.76E-02                                 | 7.31E-06                                 | 1.69E+01             | 1.21E-02           | 4.04E+00                         |
| Chloronaphthalene, 2- (chloronaphthalene, beta)       | 91-58-7    | —                                                | —                                               | s                 | O    | 1.63E+02       | 2.54E-02                            | 3.93E+00                         | —                               | 6.18E-02                                 | 6.98E-06                                 | 6.74E+00             | 1.70E-02           | 3.81E+00                         |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)      | 100-00-5   | —                                                | —                                               | s                 | O    | 1.58E+02       | 1.00E-03                            | 2.03E+00                         | —                               | 6.37E-02                                 | 8.04E-06                                 | 2.67E+02             | 3.92E-02           | 2.47E+00                         |
| Chlorophenol, 2-                                      | 95-57-8    | —                                                | —                                               | l                 | OA   | 1.29E+02       | 7.40E-04                            | 2.46E+00                         | —                               | 5.01E-02                                 | 9.46E-06                                 | 2.80E+04             | 1.42E+00           | 2.16E+00                         |
| Chlorophenol, 3-                                      | 108-43-0   | —                                                | —                                               | s                 | OA   | 1.29E+02       | 9.20E-06                            | 2.05E+00                         | —                               | 7.13E-02                                 | 8.74E-06                                 | 4.11E+04             | 5.38E-02           | 2.07E+00                         |

# Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                     | CAS        | Br <sub>abg</sub><br>(µg/g DW)/<br>(µg/g soil) | Br <sub>bg</sub><br>(µg/g DW)/<br>(µg/g soil) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-----------------------------------------|------------|------------------------------------------------|-----------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Chlorophenol, 4-                        | 106-48-9   | —                                              | —                                             | s                 | OA   | 1.29E+02       | 9.97E-06                            | 2.09E+00                         | —                               | 7.13E-02                                 | 8.75E-06                                 | 2.86E+04             | 4.06E-02           | 2.10E+00                         |
| Chlorophenyl phenylether, 4-            | 7005-72-3  | —                                              | —                                             | l                 | O    | 2.05E+02       | 1.30E-02                            | 4.12E+00                         | —                               | 4.89E-02                                 | 6.19E-06                                 | 1.43E+00             | 1.66E-03           | 5.04E+00                         |
| Chloropropane, 2-                       | 75-29-6    | —                                              | —                                             | l                 | O    | 7.85E+01       | 1.11E+00                            | 1.83E+00                         | —                               | 9.12E-02                                 | 9.30E-06                                 | 1.56E+03             | 4.04E+02           | 2.21E+00                         |
| Chlorothalonil                          | 1897-45-6  | —                                              | —                                             | s                 | O    | 2.66E+02       | 1.53E-06                            | 3.38E+00                         | —                               | 4.90E-02                                 | 6.57E-06                                 | 2.30E+01             | 2.41E-06           | 3.46E+00                         |
| Chlorotoluene, o- (2-chlorotoluene)     | 95-49-8    | —                                              | —                                             | l                 | O    | 1.27E+02       | 1.35E-01                            | 2.61E+00                         | —                               | 7.01E-02                                 | 8.01E-06                                 | 1.54E+02             | 3.90E-03           | 3.20E+00                         |
| Chlorotoluene, p- (4-chlorotoluene)     | 106-43-4   | —                                              | —                                             | l                 | O    | 1.27E+02       | 1.33E-01                            | 2.70E+00                         | —                               | 6.76E-02                                 | 7.96E-06                                 | 1.18E+02             | 2.27E+00           | 3.31E+00                         |
| Chlorpyrifos                            | 2921-88-2  | —                                              | —                                             | s                 | O    | 3.51E+02       | 1.73E-04                            | 3.70E+00                         | —                               | 4.85E-02                                 | 5.11E-06                                 | 9.00E-01             | 1.87E-05           | 4.66E+00                         |
| Chromium (III)                          | 16065-83-1 | 5.20E-03                                       | 4.50E-03                                      | s                 | M    | 5.20E+01       | 0.00E+00                            | —                                | 3.08E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| Chromium (total)                        | 7440-47-3  | 5.20E-03                                       | 4.50E-03                                      | s                 | M    | 5.20E+01       | 0.00E+00                            | —                                | 3.08E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| Chromium (VI)                           | 18540-29-9 | 5.20E-03                                       | 4.50E-03                                      | s                 | M    | 5.20E+01       | 0.00E+00                            | —                                | 1.15E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| Chrysene                                | 218-01-9   | —                                              | —                                             | s                 | O    | 2.28E+02       | 5.03E-05                            | 5.49E+00                         | —                               | 2.48E-02                                 | 6.21E-06                                 | 2.00E-03             | 7.80E-09           | 5.52E+00                         |
| Cobalt                                  | 7440-48-4  | 1.00E-02                                       | 7.00E-03                                      | s                 | M    | 5.89E+01       | 0.00E+00                            | —                                | 1.65E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| Copolymer acrylamide                    | 69418-26-4 | —                                              | —                                             | s                 | O    | 7.11E+01       | 1.33E-08                            | -6.60E-01                        | —                               | 9.70E-02                                 | 1.27E-05                                 | 2.20E+06             | 7.00E-03           | -8.07E-01                        |
| Copper                                  | 7440-50-8  | 2.90E-01                                       | 2.50E-01                                      | s                 | M    | 6.35E+01       | 0.00E+00                            | —                                | 1.60E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | -5.71E-01                        |
| Coronene                                | 191-07-1   | —                                              | —                                             | s                 | O    | 3.00E+02       | 6.60E-06                            | 7.46E+00                         | —                               | 3.70E-02                                 | 4.93E-06                                 | 9.03E-06             | 2.21E-13           | 7.59E+00                         |
| Coumaphos                               | 56-72-4    | —                                              | —                                             | s                 | O    | 3.63E+02       | 2.17E-07                            | 4.20E+00                         | —                               | 3.53E-02                                 | 4.81E-06                                 | 3.86E-01             | 4.22E-09           | 4.26E+00                         |
| Cresol                                  | 1319-77-3  | —                                              | —                                             | l                 | O    | 1.08E+02       | 3.62E-05                            | 1.94E+00                         | —                               | 7.40E-02                                 | 1.00E-05                                 | 2.30E+04             | 1.40E-01           | 2.06E+00                         |
| Cresol, m- (3-methylphenol)             | 108-39-4   | —                                              | —                                             | l                 | O    | 1.08E+02       | 3.62E-05                            | 1.94E+00                         | —                               | 7.40E-02                                 | 1.00E-05                                 | 2.30E+04             | 1.40E-01           | 2.06E+00                         |
| Cresol, o- (2-methylphenol)             | 95-48-7    | —                                              | —                                             | s                 | O    | 1.08E+02       | 6.65E-05                            | 1.99E+00                         | —                               | 7.40E-02                                 | 8.30E-06                                 | 2.04E+04             | 3.20E-01           | 2.06E+00                         |
| Cresol, p- (4-methylphenol)             | 106-44-5   | —                                              | —                                             | s                 | O    | 1.08E+02       | 3.99E-05                            | 1.91E+00                         | —                               | 7.40E-02                                 | 1.00E-05                                 | 2.30E+04             | 1.30E-01           | 2.06E+00                         |
| Crotonaldehyde                          | 123-73-9   | —                                              | —                                             | l                 | O    | 7.01E+01       | 8.15E-04                            | 2.14E-01                         | —                               | 9.37E-02                                 | 1.02E-05                                 | 1.60E+05             | 1.90E+01           | 6.01E-01                         |
| Cumene (isopropylbenzene)               | 98-82-8    | —                                              | —                                             | l                 | O    | 1.20E+02       | 6.07E-01                            | 3.54E+00                         | —                               | 6.50E-02                                 | 7.10E-06                                 | 5.00E+01             | 4.60E+00           | 3.45E+00                         |
| Cyanazine                               | 21725-46-2 | —                                              | —                                             | s                 | O    | 2.41E+02       | 6.70E-10                            | 1.69E+00                         | —                               | 4.33E-02                                 | 5.83E-06                                 | 1.15E+02             | 7.28E-09           | 1.72E+00                         |
| Cyanide                                 | 57-12-5    | —                                              | —                                             | -                 | I    | 2.60E+01       | 0.00E+00                            | -                                | 9.96E-01                        | 5.21E-01                                 | 2.28E-05                                 | 1.00E+05             | 1.38E+01           | -6.93E-01                        |
| Cyanogen                                | 460-19-5   | —                                              | —                                             | g                 | O    | 5.20E+01       | 2.06E-01                            | 1.34E-01                         | —                               | 2.04E-01                                 | 1.37E-05                                 | 1.00E+04             | 3.88E+03           | 7.00E-02                         |
| Cycloate                                | 1134-23-2  | —                                              | —                                             | l                 | O    | 2.15E+02       | 8.55E-05                            | 3.44E+00                         | —                               | 4.28E-02                                 | 5.60E-06                                 | 8.32E+01             | 6.04E-04           | 3.80E+00                         |
| Cyclohexane                             | 110-82-7   | —                                              | —                                             | l                 | O    | 8.42E+01       | 6.68E+00                            | 2.87E+00                         | —                               | 7.84E-02                                 | 8.39E-06                                 | 4.25E+01             | 6.16E+01           | 3.52E+00                         |
| Cyclohexanol                            | 108-93-0   | —                                              | —                                             | s                 | O    | 1.00E+02       | 3.52E-05                            | 1.09E+00                         | —                               | 7.20E-02                                 | 8.63E-06                                 | 2.09E+00             | 2.84E-01           | 1.11E+00                         |
| Cyclohexanone                           | 108-94-1   | —                                              | —                                             | l                 | O    | 9.81E+01       | 4.99E-04                            | 7.39E-01                         | —                               | 7.72E-02                                 | 8.73E-06                                 | 2.30E+04             | 4.00E+00           | 1.13E+00                         |
| Cyclohexene-1-methanol, 3-              | 1679-51-2  | —                                              | —                                             | s                 | O    | 1.12E+02       | 3.13E-05                            | 2.16E+00                         | —                               | 6.60E-02                                 | 7.45E-06                                 | 1.44E+04             | 7.40E-01           | 2.63E+00                         |
| Cyclohexene, 4-vinyl-1-                 | 100-40-3   | —                                              | —                                             | l                 | O    | 1.08E+02       | 2.31E+00                            | 3.09E+00                         | —                               | 6.56E-02                                 | 6.93E-06                                 | 2.95E+01             | 1.15E+01           | 3.80E+00                         |
| Cyclopentane                            | 287-92-3   | —                                              | —                                             | l                 | O    | 7.01E+01       | 3.77E+00                            | 2.29E+00                         | —                               | 8.87E-02                                 | 8.45E-06                                 | 2.25E+02             | 2.21E+02           | 2.79E+00                         |
| Cyclopentane, methyl-                   | 96-37-7    | —                                              | —                                             | l                 | O    | 8.42E+01       | 9.82E+00                            | 2.87E+00                         | —                               | 7.84E-02                                 | 7.59E-06                                 | 5.02E+01             | 1.07E+02           | 3.52E+00                         |
| Cyclopentene                            | 142-29-0   | —                                              | —                                             | l                 | O    | 6.81E+01       | 1.26E+00                            | 1.96E+00                         | —                               | 9.21E-02                                 | 8.81E-06                                 | 6.63E+02             | 2.24E+02           | 2.38E+00                         |
| Cyclotetramethylenetetranitramine (HMX) | 2691-41-0  | —                                              | —                                             | s                 | O    | 2.96E+02       | 2.50E-14                            | -1.40E+00                        | —                               | 3.74E-02                                 | 6.34E-06                                 | 2.37E+03             | 4.75E-15           | -1.30E+00                        |
| Cyclotrimethylenetrinitramine (RDX)     | 121-82-4   | —                                              | —                                             | s                 | O    | 2.22E+02       | 4.99E-04                            | 1.80E+00                         | —                               | 6.65E-02                                 | 6.39E-06                                 | 3.87E+01             | 1.00E-09           | 8.70E-01                         |
| Cymene (isopropyltoluene)               | 99-87-6    | —                                              | —                                             | l                 | O    | 1.34E+02       | 4.66E-01                            | 3.36E+00                         | —                               | 5.72E-02                                 | 6.73E-06                                 | 1.71E+01             | 1.08E+00           | 4.14E+00                         |
| Cymoxanil                               | 57966-95-7 | —                                              | —                                             | s                 | OA   | 1.98E+02       | 1.37E-08                            | -3.89E+00                        | —                               | 4.91E-02                                 | 6.76E-06                                 | 4.47E+03             | 1.13E-06           | 6.00E-01                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                                | CAS        | Br <sub>abg</sub><br>(μg/g DW)/<br>(μg/g soil) | Br <sub>bg</sub><br>(μg/g DW)/<br>(μg/g soil) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|----------------------------------------------------|------------|------------------------------------------------|-----------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Dacthal (DCPA)                                     | 1861-32-1  | —                                              | —                                             | s                 | O    | 3.32E+02       | 9.35E-06                            | 4.67E+00                         | —                               | 4.20E-02                                 | 2.05E+00                                 | 2.20E-01             | 1.13E-07           | 4.71E+00                         |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)  | 75-99-0    | —                                              | —                                             | s                 | O    | 1.43E+02       | 1.46E-05                            | 1.40E+00                         | —                               | 6.98E-02                                 | 8.70E-06                                 | 6.98E+04             | 1.30E-01           | 1.60E+00                         |
| DDD                                                | 72-54-8    | —                                              | —                                             | s                 | O    | 3.20E+02       | 1.66E-04                            | 4.93E+00                         | —                               | 1.69E-02                                 | 4.76E-06                                 | 9.00E-02             | 8.66E-07           | 5.87E+00                         |
| DDE                                                | 72-55-9    | —                                              | —                                             | s                 | O    | 2.42E+02       | 8.73E-04                            | 5.04E+00                         | —                               | 1.44E-02                                 | 5.87E-06                                 | 6.50E-02             | 5.66E-06           | 6.00E+00                         |
| DDT                                                | 50-29-3    | —                                              | —                                             | s                 | O    | 3.54E+02       | 2.23E-03                            | 5.14E+00                         | —                               | 1.37E-02                                 | 4.95E-06                                 | 3.10E-03             | 3.93E-07           | 6.79E+00                         |
| Demeton                                            | 8065-48-3  | —                                              | —                                             | l                 | O    | 2.58E+02       | 6.65E-03                            | 2.43E+00                         | —                               | 4.56E-02                                 | 5.45E-06                                 | 7.20E+02             | 1.00E-04           | 2.97E+00                         |
| Desethylatrazine                                   | 6190-65-4  | —                                              | —                                             | s                 | O    | 1.88E+02       | 2.19E-08                            | 1.85E+00                         | —                               | 5.14E-02                                 | 6.39E-06                                 | 1.80E+03             | 3.85E-06           | 1.97E+00                         |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone) | 123-42-2   | —                                              | —                                             | l                 | O    | 1.16E+02       | 1.68E-06                            | 2.67E-01                         | —                               | 6.39E-02                                 | 7.74E-06                                 | 6.81E+05             | 1.80E-01           | 2.71E-01                         |
| Diallate                                           | 2303-16-4  | —                                              | —                                             | s                 | O    | 2.70E+02       | 1.58E-04                            | 3.28E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.40E+01             | 1.50E-04           | 4.08E+00                         |
| Diazinon                                           | 333-41-5   | —                                              | —                                             | l                 | O    | 3.04E+02       | 4.70E-06                            | 2.12E+00                         | —                               | 1.80E-02                                 | 4.90E-06                                 | 4.00E+01             | 8.40E-05           | 3.86E+00                         |
| Dibenz(a,h)acridine                                | 226-36-8   | —                                              | —                                             | s                 | O    | 2.79E+02       | 8.44E-09                            | 6.28E+00                         | —                               | 3.78E-02                                 | 5.39E-06                                 | 6.84E-04             | 3.79E-13           | 6.39E+00                         |
| Dibenz(a,j)acridine                                | 224-42-0   | —                                              | —                                             | s                 | O    | 2.79E+02       | 7.08E-09                            | 6.35E+00                         | —                               | 3.79E-02                                 | 5.41E-06                                 | 8.14E-04             | 3.77E-13           | 6.36E+00                         |
| Dibenz-a,h-anthracene                              | 53-70-3    | —                                              | —                                             | s                 | O    | 2.78E+02       | 4.66E-07                            | 6.28E+00                         | —                               | 2.00E-02                                 | 5.18E-06                                 | 5.00E-04             | 2.10E-11           | 6.70E+00                         |
| Dibenzo(a,e)pyrene                                 | 192-65-4   | —                                              | —                                             | s                 | O    | 3.02E+02       | 2.16E-06                            | 7.42E+00                         | —                               | 3.67E-02                                 | 5.06E-06                                 | 7.84E-05             | 5.32E-13           | 7.85E+00                         |
| Dibenzo(a,h)pyrene                                 | 189-64-0   | —                                              | —                                             | s                 | O    | 3.02E+02       | 1.83E-06                            | 7.38E+00                         | —                               | 3.68E-02                                 | 5.07E-06                                 | 2.08E-05             | 1.30E-13           | 7.81E+00                         |
| Dibenzo(a,i)pyrene                                 | 189-55-9   | —                                              | —                                             | s                 | O    | 3.02E+02       | 1.83E-06                            | 7.38E+00                         | —                               | 3.68E-02                                 | 5.07E-06                                 | 3.39E-05             | 2.11E-13           | 7.81E+00                         |
| Dibenzofuran                                       | 132-64-9   | —                                              | —                                             | s                 | O    | 1.68E+02       | 5.28E-03                            | 3.93E+00                         | —                               | 5.51E-02                                 | 7.04E-06                                 | 2.86E+00             | 1.64E-03           | 4.00E+00                         |
| Dibenzothiophene                                   | 132-65-0   | —                                              | —                                             | s                 | O    | 1.84E+02       | 9.79E-04                            | 4.54E+00                         | —                               | 5.22E-02                                 | 6.74E-06                                 | 2.11E-01             | 2.05E-05           | 4.61E+00                         |
| Dibromo-3-chloropropane, 1,2-                      | 96-12-8    | —                                              | —                                             | l                 | O    | 2.36E+02       | 8.31E-03                            | 2.23E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.00E+03             | 7.60E-01           | 2.68E+00                         |
| Dibromochloromethane (chlorodibromomethane)        | 124-48-1   | —                                              | —                                             | l                 | O    | 2.08E+02       | 3.25E-02                            | 1.80E+00                         | —                               | 1.96E-02                                 | 1.05E-05                                 | 5.25E+03             | 1.50E+01           | 1.70E+00                         |
| Dibromofluoromethane                               | 1868-53-7  | —                                              | —                                             | l                 | O    | 1.92E+02       | 1.14E-01                            | 1.40E+00                         | —                               | 8.70E-02                                 | 1.01E-05                                 | 1.26E+04             | 1.37E+02           | 1.67E+00                         |
| Dicamba                                            | 1918-00-9  | —                                              | —                                             | s                 | O    | 2.09E+02       | 3.28E-07                            | 3.42E-01                         | —                               | 6.02E-02                                 | 6.69E-06                                 | 5.60E+03             | 9.70E-05           | 2.14E+00                         |
| Dichlormid                                         | 37764-25-3 | —                                              | —                                             | l                 | O    | 2.08E+02       | 2.75E-06                            | 1.77E+00                         | —                               | 4.66E-02                                 | 5.79E-06                                 | 4.26E+03             | 1.03E-03           | 1.89E+00                         |
| Dichloro-2-butene, 1,4-                            | 764-41-0   | —                                              | —                                             | l                 | O    | 1.25E+02       | 1.24E-02                            | 2.26E+00                         | —                               | 7.43E-02                                 | 8.62E-06                                 | 6.91E+03             | 1.26E+01           | 2.60E+00                         |
| Dichloro-2-butene, 1,4- trans                      | 110-57-6   | —                                              | —                                             | l                 | O    | 1.25E+02       | 1.35E-02                            | 2.31E+00                         | —                               | 7.14E-02                                 | 8.48E-06                                 | 1.27E+03             | 2.52E+00           | 2.35E+00                         |
| Dichlorobenzene, 1,2-                              | 95-50-1    | —                                              | —                                             | l                 | O    | 1.47E+02       | 8.73E-02                            | 2.84E+00                         | —                               | 6.90E-02                                 | 7.90E-06                                 | 1.50E+02             | 1.36E+00           | 3.28E+00                         |
| Dichlorobenzene, 1,3-                              | 541-73-1   | —                                              | —                                             | l                 | O    | 1.47E+02       | 1.95E-01                            | 2.23E+00                         | —                               | 6.80E-02                                 | 8.13E-06                                 | 1.10E+02             | 2.30E+00           | 3.28E+00                         |
| Dichlorobenzene, 1,4-                              | 106-46-7   | —                                              | —                                             | s                 | O    | 1.47E+02       | 1.17E-01                            | 2.81E+00                         | —                               | 6.90E-02                                 | 7.90E-06                                 | 7.38E+01             | 1.06E+00           | 3.28E+00                         |
| Dichlorobenzidine, 3,3-                            | 91-94-1    | —                                              | —                                             | s                 | O    | 2.53E+02       | 8.65E-07                            | 2.86E+00                         | —                               | 1.94E-02                                 | 6.74E-06                                 | 3.11E+00             | 2.20E-07           | 3.21E+00                         |
| Dichlorobutane, 2,3-                               | 7581-97-7  | —                                              | —                                             | l                 | O    | 1.27E+02       | 2.31E-01                            | 2.30E+00                         | —                               | 7.10E-02                                 | 8.07E-06                                 | 4.52E+02             | 1.50E+01           | 2.81E+00                         |
| Dichlorodifluoromethane                            | 75-71-8    | —                                              | —                                             | l                 | O    | 1.21E+02       | 1.67E+01                            | 2.11E+00                         | —                               | 5.20E-02                                 | 1.05E-05                                 | 2.80E+02             | 4.80E+03           | 1.82E+00                         |
| Dichloroethane, 1,1-                               | 75-34-3    | —                                              | —                                             | l                 | O    | 9.90E+01       | 2.39E-01                            | 1.50E+00                         | —                               | 7.42E-02                                 | 1.05E-05                                 | 5.50E+03             | 2.28E+02           | 1.76E+00                         |
| Dichloroethane, 1,2-                               | 107-06-2   | —                                              | —                                             | l                 | O    | 9.90E+01       | 5.32E-02                            | 1.24E+00                         | —                               | 1.04E-01                                 | 9.90E-06                                 | 8.70E+03             | 8.13E+01           | 1.83E+00                         |
| Dichloroethylene, 1,1-                             | 75-35-4    | —                                              | —                                             | l                 | O    | 9.69E+01       | 1.06E+00                            | 1.81E+00                         | —                               | 9.00E-02                                 | 1.04E-05                                 | 2.40E+03             | 5.91E+02           | 2.12E+00                         |
| Dichloroethylene, cis-1,2-                         | 156-59-2   | —                                              | —                                             | l                 | O    | 9.69E+01       | 1.87E-01                            | 1.46E+00                         | —                               | 7.35E-02                                 | 1.13E-05                                 | 4.93E+03             | 1.75E+02           | 1.86E+00                         |
| Dichloroethylene, trans-1,2                        | 156-60-5   | —                                              | —                                             | l                 | O    | 9.69E+01       | 3.90E-01                            | 1.70E+00                         | —                               | 7.07E-02                                 | 1.19E-05                                 | 6.30E+03             | 3.52E+02           | 2.07E+00                         |
| Dichlorofluoromethane                              | 75-43-4    | —                                              | —                                             | g                 | O    | 1.03E+02       | 1.98E-01                            | 1.08E+00                         | —                               | 1.00E-01                                 | 9.81E-06                                 | 1.99E+04             | 7.43E+02           | 1.26E+00                         |
| Dichlorophenol, 2,3-                               | 576-24-9   | —                                              | —                                             | s                 | OA   | 1.63E+02       | 9.40E-06                            | 2.14E+00                         | —                               | 6.63E-02                                 | 8.21E-06                                 | 6.94E+03             | 7.32E-03           | 2.77E+00                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                                   | CAS        | Br <sub>abg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Br <sub>bg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-------------------------------------------------------|------------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Dichlorophenol, 2,4-                                  | 120-83-2   | —                                                | —                                               | s                 | OA   | 1.63E+02       | 1.31E-04                            | 1.86E+00                         | —                               | 3.46E-02                                 | 8.77E-06                                 | 4.50E+03             | 7.15E-02           | 2.80E+00                         |
| Dichlorophenol, 2,5-                                  | 583-78-8   | —                                                | —                                               | s                 | OA   | 1.63E+02       | 9.09E-06                            | 2.09E+00                         | —                               | 6.63E-02                                 | 8.19E-06                                 | 8.34E+03             | 8.50E-03           | 2.73E+00                         |
| Dichlorophenol, 2,6-                                  | 87-65-0    | —                                                | —                                               | s                 | O    | 1.63E+02       | 1.20E-05                            | 1.35E+00                         | —                               | 6.57E-02                                 | 8.12E-06                                 | 1.03E+02             | 1.50E-01           | 2.83E+00                         |
| Dichlorophenol, 3,4-                                  | 95-77-2    | —                                                | —                                               | s                 | OA   | 1.63E+02       | 2.75E-06                            | 2.81E+00                         | —                               | 6.50E-02                                 | 8.21E-06                                 | 6.80E+03             | 2.10E-03           | 2.89E+00                         |
| Dichlorophenol, 3,5-                                  | 591-35-5   | —                                                | —                                               | s                 | OA   | 1.63E+02       | 3.68E-06                            | 2.61E+00                         | —                               | 6.51E-02                                 | 8.18E-06                                 | 1.06E+04             | 4.38E-03           | 2.75E+00                         |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)       | 94-82-6    | —                                                | —                                               | s                 | O    | 2.49E+02       | 3.19E-08                            | 2.74E-01                         | —                               | 4.41E-02                                 | 6.13E-06                                 | 7.76E+01             | 1.82E-07           | 3.79E+00                         |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)              | 94-75-7    | —                                                | —                                               | s                 | O    | 2.21E+02       | 5.82E-09                            | 2.95E+00                         | —                               | 5.90E-02                                 | 6.50E-06                                 | 8.90E+02             | 2.40E-05           | 2.62E+00                         |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid) | 120-36-5   | —                                                | —                                               | s                 | O    | 2.35E+02       | 9.00E-07                            | -1.54E+00                        | —                               | 4.70E-02                                 | 6.43E-06                                 | 2.30E+02             | 1.60E-05           | 3.26E+00                         |
| Dichloropropane, 1,2-                                 | 78-87-5    | —                                                | —                                               | l                 | O    | 1.13E+02       | 1.17E-01                            | 1.77E+00                         | —                               | 7.82E-02                                 | 8.73E-06                                 | 2.80E+03             | 5.00E+01           | 2.25E+00                         |
| Dichloropropane, 1,3-                                 | 142-28-9   | —                                                | —                                               | l                 | O    | 1.13E+02       | 5.52E-02                            | 2.10E+00                         | —                               | 7.91E-02                                 | 9.07E-06                                 | 2.16E+03             | 1.93E+01           | 2.23E+00                         |
| Dichloropropane, 2,2-                                 | 594-20-7   | —                                                | —                                               | l                 | O    | 1.13E+02       | 3.39E-01                            | 2.19E+00                         | —                               | 7.96E-02                                 | 8.71E-06                                 | 1.68E+03             | 9.24E+01           | 2.36E+00                         |
| Dichloropropanol, 2,3-                                | 616-23-9   | —                                                | —                                               | l                 | O    | 1.29E+02       | 3.97E-05                            | 1.53E+00                         | —                               | 4.84E-02                                 | 9.84E-06                                 | 2.95E+05             | 5.82E-01           | 7.84E-01                         |
| Dichloropropene, 1,1-                                 | 563-58-6   | —                                                | —                                               | l                 | O    | 1.11E+02       | 1.82E+00                            | 2.31E+00                         | —                               | 8.21E-02                                 | 8.95E-06                                 | 5.44E+02             | 1.63E+02           | 2.82E+00                         |
| Dichloropropene, 1,3- (mixed isomers)                 | 542-75-6   | —                                                | —                                               | l                 | O    | 1.11E+02       | 1.23E-01                            | 1.72E+00                         | —                               | 6.26E-02                                 | 1.00E-05                                 | 1.55E+03             | 3.12E+01           | 1.75E+00                         |
| Dichloropropene, cis 1,3-                             | 10061-01-5 | —                                                | —                                               | l                 | O    | 1.11E+02       | 9.15E-02                            | 1.65E+00                         | —                               | 7.94E-02                                 | 8.00E-06                                 | 2.70E+03             | 3.70E+01           | 1.53E+00                         |
| Dichloropropene, trans 1,3-                           | 10061-02-6 | —                                                | —                                               | l                 | O    | 1.11E+02       | 9.15E-02                            | 1.65E+00                         | —                               | 7.94E-02                                 | 9.20E-06                                 | 2.80E+03             | 3.00E+01           | 1.53E+00                         |
| Dichlorvos                                            | 62-73-7    | —                                                | —                                               | l                 | O    | 2.21E+02       | 3.98E-05                            | 9.59E+00                         | —                               | 2.32E-02                                 | 7.80E-06                                 | 1.60E+04             | 5.27E-02           | 1.40E+00                         |
| Dicrotophos (bidrin)                                  | 141-66-2   | —                                                | —                                               | l                 | O    | 2.37E+02       | 1.49E-10                            | -9.68E-01                        | —                               | 4.33E-02                                 | 5.70E-06                                 | 1.31E+07             | 1.68E-03           | -7.65E-01                        |
| Dicyclopentadiene                                     | 77-73-6    | —                                                | —                                               | —                 | O    | 1.32E+02       | —                                   | 2.96E+00                         | —                               | 7.32E-02                                 | 8.48E-06                                 | —                    | 1.40E+00           | 3.60E+00                         |
| Dieldrin                                              | 60-57-1    | —                                                | —                                               | s                 | O    | 3.81E+02       | 1.11E-04                            | 4.33E+00                         | —                               | 1.25E-02                                 | 4.74E-06                                 | 1.95E-01             | 9.96E-07           | 5.45E+00                         |
| Diethanolamine                                        | 111-42-2   | —                                                | —                                               | s                 | O    | 1.05E+02       | 1.90E-11                            | -2.10E+00                        | —                               | 7.15E-02                                 | 9.10E-06                                 | —                    | 1.00E-04           | -2.13E+00                        |
| Diethyldithiocarbamate, sodium salt                   | 148-18-5   | —                                                | —                                               | s                 | O    | 1.71E+02       | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | 2.69E-01                         |
| Diethyl phthalate                                     | 84-66-2    | —                                                | —                                               | l                 | O    | 2.22E+02       | 1.87E-05                            | 2.18E+00                         | —                               | 2.56E-02                                 | 6.35E-06                                 | 1.08E+03             | 1.65E-03           | 2.65E+00                         |
| Diethylene glycol                                     | 111-46-6   | —                                                | —                                               | l                 | O    | 1.06E+02       | 3.88E-09                            | -1.33E+00                        | —                               | 7.31E-02                                 | 9.15E-06                                 | 1.00E+06             | 1.30E-03           | -1.36E+00                        |
| Diethylene glycol monobutyl ether                     | 112-34-5   | —                                                | —                                               | l                 | O    | 1.62E+02       | 2.75E-07                            | 7.50E-01                         | —                               | 5.14E-02                                 | 6.35E-06                                 | 5.11E+04             | 1.58E-03           | 1.00E+00                         |
| Diethylhexyl adipate                                  | 103-23-1   | —                                                | —                                               | l                 | O    | 3.71E+02       | 9.78E-01                            | 5.58E+00                         | —                               | 3.56E-02                                 | 3.72E-06                                 | 1.71E-03             | 8.25E-05           | 8.12E+00                         |
| Diethylstilbestrol                                    | 56-53-1    | —                                                | —                                               | s                 | O    | 2.68E+02       | 2.62E-13                            | 4.88E+00                         | —                               | 4.43E-02                                 | 8.00E-06                                 | 1.30E+04             | 1.06E-09           | 5.64E+00                         |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-)           | 107-39-1   | —                                                | —                                               | l                 | O    | 1.12E+02       | 7.34E+01                            | 3.75E+00                         | —                               | 6.25E-02                                 | 6.70E-06                                 | 3.17E+00             | 3.80E+01           | 4.64E+00                         |
| Diisopropylbenzene, p-                                | 100-18-5   | —                                                | —                                               | l                 | O    | 1.62E+02       | 9.39E-01                            | 3.98E+00                         | —                               | 4.91E-02                                 | 5.55E-06                                 | 1.94E+00             | 2.10E-01           | 4.93E+00                         |
| Diisopropyl ether (2,2'-oxybis-propane)               | 108-20-3   | —                                                | —                                               | l                 | O    | 1.02E+02       | 1.63E-01                            | 1.81E+00                         | —                               | 6.81E-02                                 | 7.15E-06                                 | 2.67E+03             | 7.76E+01           | 2.19E+00                         |
| Dimethenamid                                          | 87674-68-8 | —                                                | —                                               | l                 | O    | 2.76E+02       | 2.18E-09                            | 1.35E+00                         | —                               | 3.80E-02                                 | 5.35E-06                                 | 3.75E+04             | 5.42E-06           | 1.49E+00                         |
| Dimethoate                                            | 60-51-5    | —                                                | —                                               | s                 | O    | 2.29E+02       | 2.58E-09                            | 6.30E-01                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 2.50E+04             | 5.09E-06           | 2.78E-01                         |
| Dimethoxybenzidine, 3,3'-                             | 119-90-4   | —                                                | —                                               | s                 | O    | 2.44E+02       | 1.66E-08                            | 1.78E+00                         | —                               | 2.42E-02                                 | 5.50E-06                                 | 2.40E+02             | 2.50E-07           | 2.08E+00                         |
| Dimethyl-2-nitrobenzene, 1,3-                         | 81-20-9    | —                                                | —                                               | l                 | O    | 1.51E+02       | 1.18E-03                            | 3.04E+00                         | —                               | 5.83E-02                                 | 6.87E-06                                 | 1.14E+02             | 1.62E-02           | 3.09E+00                         |
| Dimethyl-3-nitrobenzene, 1,2-                         | 83-41-0    | —                                                | —                                               | l                 | O    | 1.51E+02       | 9.35E-04                            | 2.83E+00                         | —                               | 5.85E-02                                 | 6.88E-06                                 | 2.13E+02             | 2.42E-02           | 2.88E+00                         |
| Dimethyl-4-nitrobenzene, 1-2-                         | 99-51-4    | —                                                | —                                               | s                 | O    | 1.51E+02       | 8.36E-04                            | 2.82E+00                         | —                               | 5.82E-02                                 | 6.85E-06                                 | 2.02E+02             | 2.05E-02           | 2.87E+00                         |
| Dimethyl-5-nitrobenzene, 1,3-                         | 99-12-7    | —                                                | —                                               | s                 | O    | 1.51E+02       | 1.36E-03                            | 2.90E+00                         | —                               | 5.81E-02                                 | 6.80E-06                                 | 1.22E+02             | 2.01E-02           | 2.95E+00                         |
| Dimethylphenethylamine, alpha, alpha-                 | 122-09-8   | —                                                | —                                               | l                 | O    | 1.49E+02       | 5.45E-05                            | 2.16E+00                         | —                               | 5.57E-02                                 | 6.64E-06                                 | 3.54E+03             | 1.30E-01           | 2.20E+00                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                                             | CAS        | Br <sub>abg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Br <sub>bg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-----------------------------------------------------------------|------------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Dimethyl phenol, 2,4-                                           | 105-67-9   | —                                                | —                                               | s                 | O    | 1.22E+02       | 8.31E-05                            | 2.07E+00                         | —                               | 5.84E-02                                 | 8.69E-06                                 | 6.20E+03             | 1.26E-01           | 2.61E+00                         |
| Dimethylaminoazobenzene, p-                                     | 60-11-7    | —                                                | —                                               | s                 | OB   | 2.25E+02       | 3.25E-05                            | 5.06E+00                         | —                               | 4.25E-02                                 | 5.57E-06                                 | 4.04E-01             | 1.07E-06           | 5.00E+00                         |
| Dimethylbenz-a-anthracene, 7,12-                                | 57-97-6    | —                                                | —                                               | s                 | O    | 2.56E+02       | 6.49E-06                            | 6.93E+00                         | —                               | 3.90E-02                                 | 5.39E-06                                 | 1.27E-03             | 4.03E-10           | 7.14E+00                         |
| Dimethylbenzidine, 3,3'-                                        | 119-93-7   | —                                                | —                                               | s                 | O    | 2.12E+02       | 5.40E-09                            | 2.30E+00                         | —                               | 5.10E-02                                 | 8.00E-06                                 | 2.40E+02             | 3.70E-07           | 3.02E+00                         |
| Dimethylformamide, N,N-                                         | 68-12-2    | —                                                | —                                               | l                 | O    | 7.31E+01       | 3.21E-05                            | -3.10E-01                        | —                               | 9.01E-02                                 | 9.28E-06                                 | 1.00E+06             | 1.07E+01           | -4.90E-01                        |
| Dimethylnaphthalene, 1,3-                                       | 575-41-7   | —                                                | —                                               | l                 | O    | 1.56E+02       | 7.23E-03                            | 4.30E+00                         | —                               | 5.39E-02                                 | 6.77E-06                                 | 8.85E+00             | 7.49E-03           | 4.38E+00                         |
| Dimethylphthalate                                               | 131-11-3   | —                                                | —                                               | l                 | O    | 1.94E+02       | 2.40E-05                            | 1.50E+00                         | —                               | 5.68E-02                                 | 6.30E-06                                 | 4.19E+03             | 9.12E-03           | 1.66E+00                         |
| Di-n-butyl phthalate                                            | 84-74-2    | —                                                | —                                               | l                 | O    | 2.78E+02       | 5.94E-05                            | 4.53E+00                         | —                               | 4.38E-02                                 | 7.86E-06                                 | 1.12E+01             | 4.25E-05           | 4.61E+00                         |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)          | 534-52-1   | —                                                | —                                               | s                 | O    | 1.98E+02       | 1.07E-07                            | -1.50E+00                        | —                               | 5.31E-02                                 | 7.27E-06                                 | 3.00E+03             | 2.87E-05           | 2.07E+00                         |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4- )                    | 99-65-0    | —                                                | —                                               | s                 | O    | 1.68E+02       | 4.57E-06                            | 1.48E+00                         | —                               | 2.80E-01                                 | 7.60E-06                                 | 5.40E+02             | 2.49E-04           | 1.63E+00                         |
| Dinitrobenzene, 1,4-                                            | 100-25-4   | —                                                | —                                               | s                 | O    | 1.68E+02       | 4.44E-06                            | 1.42E+00                         | —                               | 6.15E-02                                 | 7.18E-06                                 | 1.00E+02             | 4.83E-05           | 1.63E+00                         |
| Dinitrophenol, 2,4-                                             | 51-28-5    | —                                                | —                                               | s                 | OA   | 1.84E+02       | 2.01E-07                            | -2.00E+00                        | —                               | 2.73E-02                                 | 9.06E-06                                 | 5.80E+03             | 1.14E-04           | 1.73E+00                         |
| Dinitrophenol, 2,5-                                             | 329-71-5   | —                                                | —                                               | s                 | OA   | 1.84E+02       | 1.47E-07                            | 2.55E-03                         | —                               | 5.98E-02                                 | 7.84E-06                                 | 1.79E+03             | 2.61E-05           | 2.62E+00                         |
| Dinitrotoluene, 2,4-                                            | 121-14-2   | —                                                | —                                               | s                 | O    | 1.82E+02       | 3.60E-05                            | 1.71E+00                         | —                               | 2.03E-01                                 | 7.06E-06                                 | 2.85E+02             | 1.74E-04           | 2.18E+00                         |
| Dinitrotoluene, 2,6-                                            | 606-20-2   | —                                                | —                                               | s                 | O    | 1.82E+02       | 3.11E-05                            | 1.62E+00                         | —                               | 3.27E-02                                 | 7.26E-06                                 | 1.82E+02             | 5.70E-04           | 2.18E+00                         |
| Di-n-octyl phthalate                                            | 117-84-0   | —                                                | —                                               | l                 | O    | 3.91E+02       | 2.78E-03                            | 7.92E+00                         | —                               | 1.51E-02                                 | 3.90E-06                                 | 2.00E-02             | 4.47E-06           | 8.54E+00                         |
| Dinoseb                                                         | 88-85-7    | —                                                | —                                               | s                 | O    | 2.40E+02       | 2.08E-02                            | 3.08E+00                         | —                               | 2.25E-02                                 | 6.25E-06                                 | 5.20E+01             | 7.52E-02           | 3.67E+00                         |
| Dioxane 1,4-                                                    | 123-91-1   | —                                                | —                                               | l                 | O    | 8.81E+01       | 2.04E-04                            | -2.68E-01                        | —                               | 2.30E-01                                 | 1.00E-05                                 | 9.00E+05             | 3.80E+01           | -3.20E-01                        |
| Dioxins/furans, polychlorinated; (reported as 2,3,7,8-TCDD TEQ) | 1746-01-6  | —                                                | —                                               | s                 | O    | 3.22E+02       | 1.47E-03                            | 7.15E+00                         | —                               | 4.70E-02                                 | 8.00E-06                                 | 1.93E-05             | 7.40E-10           | 7.02E+00                         |
| Diphenyl ether                                                  | 101-84-8   | —                                                | —                                               | s                 | O    | 1.70E+02       | 1.75E-02                            | 4.18E+00                         | —                               | 5.30E-02                                 | 6.69E-06                                 | 7.78E+00             | 1.47E-02           | 4.25E+00                         |
| Diphenylamine                                                   | 122-39-4   | —                                                | —                                               | s                 | O    | 1.69E+02       | 1.83E-04                            | 2.54E+00                         | —                               | 6.80E-02                                 | 6.30E-06                                 | 3.00E+02             | 4.26E-03           | 3.29E+00                         |
| Diphenylhydrazine, 1,2-                                         | 122-66-7   | —                                                | —                                               | s                 | O    | 1.84E+02       | 1.42E-07                            | 2.82E+00                         | —                               | 5.62E-02                                 | 5.70E-06                                 | 1.84E+03             | 2.60E-05           | 3.06E+00                         |
| Dipropylene glycol                                              | 110-98-5   | —                                                | —                                               | l                 | O    | 1.34E+02       | 1.79E-08                            | -4.77E-01                        | —                               | 5.97E-02                                 | 6.90E-06                                 | 9.83E+05             | 2.39E-03           | -4.86E-01                        |
| Diquat                                                          | 85-00-7    | —                                                | —                                               | s                 | O    | 3.44E+02       | 2.69E-12                            | 2.31E+00                         | —                               | 5.52E-02                                 | 5.52E-06                                 | 7.00E+05             | 1.00E-07           | -2.82E+00                        |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)     | 142-73-4   | —                                                | —                                               | s                 | O    | 1.33E+02       | 3.82E-14                            | -1.31E+00                        | —                               | 6.03E-02                                 | 8.38E-06                                 | 1.57E+05             | 8.21E-10           | -1.33E+00                        |
| Disulfoton                                                      | 298-04-4   | —                                                | —                                               | s                 | O    | 2.74E+02       | 2.58E-04                            | 3.95E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.60E+01             | 2.30E-04           | 3.86E+00                         |
| Diuron                                                          | 330-54-1   | —                                                | —                                               | s                 | O    | 2.33E+02       | 3.04E-08                            | 2.63E+00                         | —                               | 5.40E-02                                 | 5.30E-06                                 | 4.20E+01             | 1.00E-07           | 2.67E+00                         |
| Dodecylphenol, 4-                                               | 104-43-8   | —                                                | —                                               | l                 | OA   | 2.62E+02       | 4.00E-04                            | 8.40E+00                         | —                               | 3.46E-02                                 | 4.72E-06                                 | 3.80E-02             | 1.06E-06           | 8.40E+00                         |
| Endosulfan                                                      | 115-29-7   | —                                                | —                                               | s                 | O    | 4.07E+02       | 4.66E-04                            | 2.87E+00                         | —                               | 1.15E-02                                 | 4.55E-06                                 | 5.10E-01             | 9.96E-06           | 3.84E+00                         |
| Endosulfan I                                                    | 959-98-8   | —                                                | —                                               | s                 | O    | 4.07E+02       | 3.55E-05                            | 4.20E+00                         | —                               | 3.22E-02                                 | 4.67E-06                                 | 1.73E+00             | 2.75E-06           | 5.20E+00                         |
| Endosulfan II                                                   | 33213-65-9 | —                                                | —                                               | s                 | O    | 4.07E+02       | 3.55E-05                            | 4.20E+00                         | —                               | 3.22E-02                                 | 4.67E-06                                 | 1.16E+00             | 1.84E-06           | 5.20E+00                         |
| Endosulfan sulfate                                              | 1031-07-8  | —                                                | —                                               | s                 | O    | 4.23E+02       | 3.65E-05                            | 5.90E+00                         | —                               | 3.00E-02                                 | 4.63E-06                                 | 1.02E-01             | 1.62E-07           | 6.01E+00                         |
| Endothall                                                       | 145-73-3   | —                                                | —                                               | s                 | O    | 2.30E+02       | 1.08E-08                            | 1.93E+00                         | —                               | 5.72E-02                                 | 7.50E-06                                 | 1.00E+05             | 1.80E-04           | 1.89E+00                         |
| Endrin                                                          | 72-20-8    | —                                                | —                                               | s                 | O    | 3.81E+02       | 4.95E-05                            | 3.97E+00                         | —                               | 1.25E-02                                 | 4.74E-06                                 | 2.50E-01             | 5.84E-07           | 5.45E+00                         |
| Endrin aldehyde                                                 | 7421-93-4  | —                                                | —                                               | l                 | O    | 3.81E+02       | 1.80E-02                            | 6.33E+00                         | —                               | 2.97E-02                                 | 3.83E-06                                 | 1.68E-02             | 1.46E-05           | 6.44E+00                         |
| Endrin ketone                                                   | 53494-70-5 | —                                                | —                                               | s                 | O    | 3.81E+02       | 3.66E-05                            | 5.24E+00                         | —                               | 3.10E-02                                 | 4.46E-06                                 | 8.60E-01             | 1.51E-06           | 5.33E+00                         |
| Epichlorohydrin                                                 | 106-89-8   | —                                                | —                                               | l                 | O    | 9.25E+01       | 1.37E-03                            | 3.00E-01                         | —                               | 8.60E-02                                 | 9.80E-06                                 | 6.60E+04             | 1.67E+01           | 6.26E-01                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                                   | CAS        | Br <sub>abg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Br <sub>bg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-------------------------------------------------------|------------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate) | 2104-64-5  | —                                                | —                                               | s                 | O    | 3.23E+02       | 2.00E-08                            | 3.75E+00                         | —                               | 3.93E-02                                 | 5.16E-06                                 | 1.40E+00             | 1.91E-09           | 3.81E+00                         |
| Esfenvalerate                                         | 66230-04-4 | —                                                | —                                               | s                 | O    | 4.20E+02       | 1.70E-08                            | 4.80E+00                         | —                               | 2.91E-02                                 | 4.18E-06                                 | 2.00E-04             | 1.80E-11           | 6.30E+00                         |
| Ethalfuralin (sonolan)                                | 55283-68-6 | —                                                | —                                               | l                 | O    | 3.33E+02       | 1.54E-05                            | 4.78E+00                         | —                               | 3.75E-02                                 | 4.96E-06                                 | 1.01E+01             | 8.54E-06           | 4.82E+00                         |
| Ethanol                                               | 64-17-5    | —                                                | —                                               | l                 | O    | 4.61E+01       | 2.77E-04                            | 7.68E-02                         | —                               | 1.15E-01                                 | 1.22E-05                                 | 2.96E+05             | 3.26E+01           | -2.00E-03                        |
| Ethanol, 2-amino-                                     | 141-43-5   | —                                                | —                                               | l                 | O    | 6.11E+01       | 1.75E-07                            | -8.96E-01                        | —                               | 1.02E-01                                 | 1.11E-05                                 | 1.00E+06             | 5.70E-01           | -1.23E+00                        |
| Ethanol, 2-(2-aminoethoxy)-                           | 929-06-6   | —                                                | —                                               | l                 | O    | 1.05E+02       | 8.48E-09                            | -8.09E-01                        | —                               | 7.15E-02                                 | 8.06E-06                                 | 1.00E+06             | 2.45E-02           | -1.12E+00                        |
| Ethanol, 2-(2-ethoxyethoxy)-                          | 111-90-0   | —                                                | —                                               | l                 | O    | 1.34E+02       | 2.54E-07                            | 1.56E+00                         | —                               | 5.95E-02                                 | 6.73E-06                                 | 7.40E+05             | 2.56E-02           | 3.30E-01                         |
| Ethanol, 2-(methylamino)-                             | 109-83-1   | —                                                | —                                               | s                 | O    | 7.51E+01       | 2.20E-07                            | -7.69E-01                        | —                               | 8.44E-02                                 | 9.23E-06                                 | 1.39E+06             | 1.10E-01           | -1.07E+00                        |
| Ethion                                                | 563-12-2   | —                                                | —                                               | l                 | O    | 3.84E+02       | 2.87E-05                            | 4.19E+00                         | —                               | 3.20E-02                                 | 4.60E-06                                 | 1.20E+00             | 1.50E-06           | 4.75E+00                         |
| Ethoprop                                              | 13194-48-4 | —                                                | —                                               | l                 | O    | 2.42E+02       | 6.73E-06                            | 3.09E+00                         | —                               | 4.16E-02                                 | 5.56E-06                                 | 7.50E+02             | 3.80E-04           | 3.14E+00                         |
| Ethoxy ethanol, 2-                                    | 110-80-5   | —                                                | —                                               | l                 | O    | 9.01E+01       | 1.04E-05                            | -9.69E-02                        | —                               | 9.47E-02                                 | 9.75E-06                                 | 1.20E+01             | 4.56E+00           | -4.16E-01                        |
| Ethyl acetate                                         | 141-78-6   | —                                                | —                                               | l                 | O    | 8.81E+01       | 5.57E-03                            | 7.20E-01                         | —                               | 7.30E-02                                 | 9.70E-06                                 | 7.90E+04             | 9.41E+01           | 8.64E-01                         |
| Ethyl acrylate                                        | 140-88-5   | —                                                | —                                               | l                 | O    | 1.00E+02       | 1.06E-02                            | 2.03E+00                         | —                               | 7.40E-02                                 | 8.68E-06                                 | 2.00E+04             | 2.95E+01           | 1.22E+00                         |
| Ethyl benzene                                         | 100-41-4   | —                                                | —                                               | l                 | O    | 1.06E+02       | 3.28E-01                            | 2.31E+00                         | —                               | 7.50E-02                                 | 7.80E-06                                 | 1.69E+02             | 9.60E+00           | 3.03E+00                         |
| Ethyl dipropylthiocarbamate, S-                       | 759-94-4   | —                                                | —                                               | l                 | O    | 1.89E+02       | 4.57E-03                            | 2.38E+00                         | —                               | 5.35E-02                                 | 5.65E-06                                 | 3.70E+02             | 1.60E-01           | 3.02E+00                         |
| Ethyl ether                                           | 60-29-7    | —                                                | —                                               | l                 | O    | 7.41E+01       | 2.70E-02                            | 8.80E-01                         | —                               | 7.40E-02                                 | 9.30E-06                                 | 6.10E+04             | 5.40E+02           | 1.05E+00                         |
| Ethyl methacrylate                                    | 97-63-2    | —                                                | —                                               | l                 | O    | 1.14E+02       | 6.65E-03                            | 1.57E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.90E+04             | 1.75E+01           | 1.77E+00                         |
| Ethyl methanesulfonate                                | 62-50-0    | —                                                | —                                               | l                 | O    | 1.24E+02       | 2.49E-06                            | -6.04E-01                        | —                               | 6.94E-02                                 | 8.72E-06                                 | 6.95E+04             | 2.54E-02           | -6.14E-01                        |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)      | 637-92-3   | —                                                | —                                               | l                 | O    | 1.02E+02       | 9.99E-02                            | 1.57E+00                         | —                               | 6.95E-02                                 | 7.34E-06                                 | 5.03E+03             | 9.00E+01           | 1.88E+00                         |
| Ethyl-1-hexanol, 2-                                   | 104-76-7   | —                                                | —                                               | l                 | O    | 1.30E+02       | 8.73E-04                            | 2.67E+00                         | —                               | 5.70E-02                                 | 6.73E-06                                 | 8.66E+02             | 1.10E-01           | 2.72E+00                         |
| Ethyl-2-hexenal, 2-                                   | 645-62-5   | —                                                | —                                               | l                 | O    | 1.26E+02       | 1.79E-02                            | 2.15E+00                         | —                               | 6.00E-02                                 | 6.91E-06                                 | 5.85E+02             | 1.52E+00           | 2.62E+00                         |
| Ethyl-2-methyl benzene, 1-                            | 611-14-3   | —                                                | —                                               | l                 | O    | 1.20E+02       | 2.19E-01                            | 3.03E+00                         | —                               | 6.76E-02                                 | 7.29E-06                                 | 7.46E+01             | 2.48E+00           | 3.53E+00                         |
| Ethyl-4-methyl benzene, 1-                            | 622-96-8   | —                                                | —                                               | l                 | O    | 1.20E+02       | 3.27E-01                            | 3.07E+00                         | —                               | 6.70E-02                                 | 7.18E-06                                 | 9.48E+01             | 2.95E+00           | 3.58E+00                         |
| Ethylene*                                             | 74-85-1    | —                                                | —                                               | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Ethylene dibromide (dibromoethane, 1,2- )             | 106-93-4   | —                                                | —                                               | l                 | O    | 1.88E+02       | 2.93E-02                            | 1.73E+00                         | —                               | 2.17E-02                                 | 1.90E-05                                 | 4.32E+03             | 1.10E+01           | 2.01E+00                         |
| Ethylene glycol                                       | 107-21-1   | —                                                | —                                               | l                 | O    | 6.21E+01       | 2.49E-06                            | -9.00E-01                        | —                               | 1.08E-01                                 | 1.22E-05                                 | 1.00E+06             | 7.00E-02           | -1.20E+00                        |
| Ethylene oxide                                        | 75-21-8    | —                                                | —                                               | g                 | O    | 4.41E+01       | 4.92E-03                            | 3.42E-01                         | —                               | 1.04E-01                                 | 1.45E-05                                 | 3.83E+05             | 1.32E+03           | -4.54E-02                        |
| Ethylene thiourea                                     | 96-45-7    | —                                                | —                                               | s                 | O    | 1.02E+02       | 4.99E-05                            | -6.60E-01                        | —                               | 7.15E-02                                 | 1.02E-05                                 | 1.20E+04             | 8.36E-02           | -4.91E-01                        |
| Ethylenediamine                                       | 107-15-3   | —                                                | —                                               | l                 | O    | 6.01E+01       | 7.19E-08                            | 6.73E-01                         | —                               | 1.53E-01                                 | 1.12E-05                                 | 7.95E+06             | 1.10E+01           | -1.62E+00                        |
| Ethylenimine                                          | 151-56-4   | —                                                | —                                               | l                 | OB   | 4.31E+01       | 1.68E-05                            | 2.68E-01                         | —                               | 1.20E-01                                 | 1.30E-05                                 | 8.62E+05             | 2.31E+02           | -6.04E-01                        |
| Ethylhexyl acrylate, 2-                               | 103-11-7   | —                                                | —                                               | l                 | O    | 1.84E+02       | 4.29E-02                            | 4.00E+00                         | —                               | 4.68E-02                                 | 5.74E-06                                 | 1.37E+01             | 5.85E-02           | 4.07E+00                         |
| Famphur                                               | 52-85-7    | —                                                | —                                               | s                 | O    | 3.25E+02       | 6.70E-11                            | 1.14E+00                         | —                               | 4.02E-02                                 | 5.31E-06                                 | 7.06E+03             | 2.66E-08           | 1.29E+00                         |
| Fensulfothion                                         | 115-90-2   | —                                                | —                                               | l                 | O    | 3.08E+02       | 1.42E-07                            | 2.49E+00                         | —                               | 4.04E-02                                 | 5.32E-06                                 | 4.10E+04             | 3.45E-04           | 2.05E+00                         |
| Fenthion                                              | 55-38-9    | —                                                | —                                               | l                 | O    | 2.78E+02       | 2.13E-05                            | 3.04E+00                         | —                               | 4.35E-02                                 | 5.42E-06                                 | 2.17E+01             | 1.38E-04           | 3.06E+00                         |
| Fenuron                                               | 101-42-8   | —                                                | —                                               | s                 | O    | 1.64E+02       | 7.03E-08                            | 1.28E+00                         | —                               | 5.36E-02                                 | 6.61E-06                                 | 2.30E+03             | 1.81E-05           | 1.37E+00                         |
| Fluoranthene                                          | 206-44-0   | —                                                | —                                               | s                 | O    | 2.02E+02       | 3.88E-04                            | 4.69E+00                         | —                               | 3.02E-02                                 | 6.35E-06                                 | 2.60E-01             | 8.13E-06           | 4.93E+00                         |
| Fluorene                                              | 86-73-7    | —                                                | —                                               | s                 | O    | 1.66E+02       | 2.64E-03                            | 3.88E+00                         | —                               | 3.63E-02                                 | 7.88E-06                                 | 1.98E+00             | 3.24E-03           | 4.02E+00                         |
| Fluorine (soluble fluoride)                           | 7782-41-4  | —                                                | —                                               | g                 | I    | 3.80E+01       | —                                   | —                                | 2.18E+00                        | —                                        | —                                        | —                    | 7.60E+02           | 2.23E-01                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                               | CAS        | Br <sub>abg</sub><br>(µg/g DW)/<br>(µg/g soil) | Br <sub>bg</sub><br>(µg/g DW)/<br>(µg/g soil) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|---------------------------------------------------|------------|------------------------------------------------|-----------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Fluorochloridone                                  | 61213-25-0 | —                                              | —                                             | s                 | O    | 3.12E+02       | 8.44E-08                            | 2.69E+00                         | —                               | 4.09E-02                                 | 5.47E-06                                 | 8.23E+01             | 4.07E-07           | 3.30E+00                         |
| Fonofos                                           | 944-22-9   | —                                              | —                                             | s                 | O    | 2.46E+02       | 3.17E-01                            | 3.55E+00                         | —                               | 4.65E-02                                 | 5.52E-06                                 | 1.46E+01             | 3.43E-01           | 4.00E+00                         |
| Formaldehyde                                      | 50-00-0    | —                                              | —                                             | g                 | O    | 3.00E+01       | 1.37E-05                            | 3.40E-01                         | —                               | 1.80E-01                                 | 2.00E-05                                 | 5.50E+05             | 3.88E+03           | 3.50E-01                         |
| Formic acid                                       | 64-18-6    | —                                              | —                                             | l                 | O    | 4.60E+01       | 1.79E-04                            | -5.40E-01                        | —                               | 7.90E-02                                 | 1.40E-06                                 | 1.00E+06             | 4.10E+01           | -4.61E-01                        |
| Furan                                             | 110-00-9   | —                                              | —                                             | l                 | O    | 6.81E+01       | 2.24E-01                            | 1.32E+00                         | —                               | 1.04E-01                                 | 1.20E-05                                 | 1.00E+04             | 6.00E+02           | 1.36E+00                         |
| Furfural                                          | 98-01-1    | —                                              | —                                             | l                 | O    | 9.61E+01       | 1.25E-04                            | 4.45E-01                         | —                               | 8.72E-02                                 | 1.12E-05                                 | 8.60E+04             | 2.00E+00           | 8.32E-01                         |
| Glycidylaldehyde                                  | 765-34-4   | —                                              | —                                             | l                 | O    | 7.21E+01       | 1.08E-05                            | 9.64E-01                         | —                               | 9.64E-02                                 | 1.16E-05                                 | 8.55E+07             | 2.70E+01           | -1.17E-01                        |
| Glyphosate                                        | 1071-83-6  | —                                              | —                                             | s                 | OA   | 1.69E+02       | 6.11E-12                            | 3.00E+00                         | —                               | 5.07E-02                                 | 7.64E-06                                 | 1.46E+04             | 2.43E-08           | -3.33E+00                        |
| Heptachlor                                        | 76-44-8    | —                                              | —                                             | s                 | O    | 3.73E+02       | 2.44E-02                            | 4.07E+00                         | —                               | 1.12E-02                                 | 5.69E-06                                 | 1.80E-01             | 3.26E-04           | 6.21E+00                         |
| Heptachlor epoxide                                | 1024-57-3  | —                                              | —                                             | s                 | O    | 3.89E+02       | 3.45E-04                            | 3.86E+00                         | —                               | 1.32E-02                                 | 4.23E-06                                 | 2.75E-01             | 4.34E-06           | 4.91E+00                         |
| Heptane, n-                                       | 142-82-5   | —                                              | —                                             | l                 | O    | 1.00E+02       | 8.37E+01                            | 3.84E+00                         | —                               | 6.54E-02                                 | 7.00E-06                                 | 2.66E+00             | 4.07E+01           | 4.75E+00                         |
| Heptanoic acid, n-                                | 111-14-8   | —                                              | —                                             | l                 | OA   | 1.30E+02       | 3.72E-05                            | -3.00E-01                        | —                               | 5.73E-02                                 | 7.13E-06                                 | 1.70E+03             | 8.84E-03           | 2.99E+00                         |
| Hexachlorobenzene                                 | 118-74-1   | —                                              | —                                             | s                 | O    | 2.85E+02       | 2.22E-02                            | 4.45E+00                         | —                               | 5.42E-02                                 | 5.91E-06                                 | 6.00E-03             | 1.23E-05           | 5.86E+00                         |
| Hexachlorobutadiene                               | 87-68-3    | —                                              | —                                             | l                 | O    | 2.61E+02       | 9.94E-01                            | 3.84E+00                         | —                               | 5.61E-02                                 | 6.16E-06                                 | 2.55E+00             | 1.77E-01           | 4.72E+00                         |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | —                                              | —                                             | s                 | O    | 2.91E+02       | 2.82E-04                            | 3.12E+00                         | —                               | 1.42E-02                                 | 7.34E-06                                 | 2.00E+00             | 4.26E-05           | 4.26E+00                         |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | —                                              | —                                             | s                 | O    | 2.91E+02       | 1.44E-05                            | 3.14E+00                         | —                               | 1.42E-02                                 | 7.34E-06                                 | 5.42E-01             | 4.90E-07           | 4.26E+00                         |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | —                                              | —                                             | s                 | O    | 2.91E+02       | 1.77E-04                            | 3.93E+00                         | —                               | 4.50E-02                                 | 6.20E-06                                 | 2.59E+00             | 2.87E-05           | 4.00E+00                         |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | —                                              | —                                             | s                 | O    | 2.91E+02       | 1.41E-04                            | 3.04E+00                         | —                               | 1.42E-02                                 | 7.34E-06                                 | 5.75E+00             | 3.72E-05           | 4.26E+00                         |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | —                                              | —                                             | —                 | O    | 2.91E+02       | 5.99E-05                            | 3.38E+00                         | —                               | 1.42E-02                                 | 7.34E-06                                 | 4.35E+01             | 1.64E-04           | 4.26E+00                         |
| Hexachlorocyclopentadiene                         | 77-47-4    | —                                              | —                                             | l                 | O    | 2.74E+02       | 7.15E-01                            | 3.98E+00                         | —                               | 1.61E-02                                 | 7.21E-06                                 | 1.80E+00             | 7.32E-02           | 4.63E+00                         |
| Hexachloroethane                                  | 67-72-1    | —                                              | —                                             | s                 | O    | 2.37E+02       | 1.62E-01                            | 3.26E+00                         | —                               | 2.50E-03                                 | 6.80E-06                                 | 5.00E+01             | 4.72E-01           | 4.03E+00                         |
| Hexachlorophene                                   | 70-30-4    | —                                              | —                                             | s                 | O    | 4.07E+02       | 2.54E-09                            | 7.30E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 3.00E-03             | 2.74E-12           | 6.92E+00                         |
| Hexachloropropylene                               | 1888-71-7  | —                                              | —                                             | l                 | O    | 2.49E+02       | 3.94E-02                            | 4.03E+00                         | —                               | 5.64E-02                                 | 7.15E-06                                 | 4.11E+01             | 1.19E-01           | 4.10E+00                         |
| Hexanal, 2-ethyl-                                 | 123-05-7   | —                                              | —                                             | l                 | O    | 1.28E+02       | 1.23E-02                            | 2.12E+00                         | —                               | 5.81E-02                                 | 6.26E-06                                 | 5.48E+02             | 9.59E-01           | 2.58E+00                         |
| Hexane, n-                                        | 110-54-3   | —                                              | —                                             | l                 | O    | 8.62E+01       | 4.66E+01                            | 2.68E+00                         | —                               | 2.00E-01                                 | 7.77E-06                                 | 1.30E+01             | 1.52E+02           | 3.29E+00                         |
| Hexanediamine, 1,6-                               | 124-09-4   | —                                              | —                                             | s                 | O    | 1.16E+02       | 2.88E-08                            | 3.56E-01                         | —                               | 6.02E-02                                 | 6.79E-06                                 | 1.00E+06             | 4.22E-02           | 3.50E-01                         |
| Hexanedinitrile                                   | 111-69-3   | —                                              | —                                             | l                 | O    | 1.08E+02       | 9.31E-08                            | 2.62E-01                         | —                               | 6.72E-02                                 | 7.66E-06                                 | 1.00E+06             | 6.23E-03           | 2.80E-01                         |
| Hexanediol, 1,6-                                  | 629-11-8   | —                                              | —                                             | s                 | O    | 1.18E+02       | 3.14E-08                            | 7.62E-01                         | —                               | 6.58E-02                                 | 7.82E-06                                 | 2.34E+04             | 1.10E-04           | 7.75E-01                         |
| Hexanoic acid                                     | 142-62-1   | —                                              | —                                             | l                 | O    | 1.16E+02       | 1.31E-05                            | -1.29E+00                        | —                               | 6.20E-02                                 | 7.68E-06                                 | 1.19E+04             | 2.46E-02           | 2.06E+00                         |
| Hexanone, 2-                                      | 591-78-6   | —                                              | —                                             | l                 | O    | 1.00E+02       | 3.38E-03                            | 1.25E+00                         | —                               | 6.96E-02                                 | 7.75E-06                                 | 1.79E+04             | 1.11E+01           | 1.48E+00                         |
| Hexazinone                                        | 51235-04-2 | —                                              | —                                             | s                 | O    | 2.52E+02       | 8.62E-11                            | 1.57E+00                         | —                               | 5.08E-02                                 | 5.11E-06                                 | 3.30E+04             | 2.03E-07           | 2.15E+00                         |
| Hexene, 1-                                        | 592-41-6   | —                                              | —                                             | l                 | O    | 8.42E+01       | 2.33E+01                            | 2.90E+00                         | —                               | 7.39E-02                                 | 7.12E-06                                 | 2.98E+01             | 1.52E+02           | 3.56E+00                         |
| Hexene, cis-2-                                    | 7688-21-3  | —                                              | —                                             | l                 | O    | 8.42E+01       | 1.62E+01                            | 2.93E+00                         | —                               | 7.39E-02                                 | 7.15E-06                                 | 3.75E+01             | 1.33E+02           | 3.60E+00                         |
| Hexylene glycol (2-methyl-2,4-pentanediol)        | 107-41-5   | —                                              | —                                             | l                 | O    | 1.18E+02       | 6.57E-07                            | 3.93E-01                         | —                               | 6.57E-02                                 | 7.70E-06                                 | 7.27E+05             | 7.40E-02           | 4.00E-01                         |
| Hydrazine                                         | 302-01-2   | —                                              | —                                             | l                 | O    | 3.20E+01       | 7.20E-08                            | -1.00E+00                        | —                               | 4.16E-01                                 | 1.90E-05                                 | 3.41E+08             | 1.40E+01           | -1.47E+00                        |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid)    | 1191-25-9  | —                                              | —                                             | l                 | OA   | 1.32E+02       | 1.84E-09                            | -2.55E-01                        | —                               | 5.77E-02                                 | 7.22E-06                                 | 9.86E+03             | 2.51E-06           | -3.00E+00                        |
| Hydrogen chloride (hydrochloric acid)*            | 7647-01-0  | —                                              | —                                             | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Hydroquinone                                      | 123-31-9   | —                                              | —                                             | s                 | O    | 1.10E+02       | 1.35E-09                            | 4.98E-01                         | —                               | 6.82E-02                                 | 8.56E-06                                 | 2.06E+04             | 4.62E-06           | 5.30E-01                         |

# Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                                | CAS        | Br <sub>abg</sub><br>(µg/g DW)/<br>(µg/g soil) | Br <sub>bg</sub><br>(µg/g DW)/<br>(µg/g soil) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|----------------------------------------------------|------------|------------------------------------------------|-----------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Indene                                             | 95-13-6    | —                                              | —                                             | l                 | O    | 1.16E+02       | 2.08E-02                            | 2.50E+00                         | —                               | 6.82E-02                                 | 7.97E-06                                 | 3.90E+02             | 1.30E+00           | 2.80E+00                         |
| Indeno-1,2,3-cd-pyrene                             | 193-39-5   | —                                              | —                                             | s                 | O    | 2.76E+02       | 2.85E-06                            | 6.54E+00                         | —                               | 1.90E-02                                 | 5.66E-06                                 | 3.75E-03             | 1.40E-10           | 6.70E+00                         |
| Iron*                                              | 7439-89-6  | —                                              | —                                             | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Isoamyl alcohol                                    | 123-51-3   | —                                              | —                                             | l                 | O    | 8.81E+01       | 5.64E-04                            | 1.24E+00                         | —                               | 7.40E-02                                 | 7.75E-06                                 | 1.75E+04             | 2.05E+00           | 1.47E+00                         |
| Isobutyl alcohol                                   | 78-83-1    | —                                              | —                                             | l                 | O    | 7.41E+01       | 4.99E-04                            | 7.50E-01                         | —                               | 8.60E-02                                 | 8.00E-06                                 | 9.49E+04             | 1.00E+01           | 7.67E-01                         |
| Isobutylene (2-methyl-1-propene)                   | 115-11-7   | —                                              | —                                             | g                 | O    | 5.61E+01       | 9.56E+00                            | 2.03E+00                         | —                               | 9.90E-02                                 | 9.08E-06                                 | 2.39E+02             | 1.75E+03           | 2.47E+00                         |
| Isobutyric acid (2-methylpropanoic acid)           | 79-31-2    | —                                              | —                                             | l                 | OA   | 8.81E+01       | 2.40E-05                            | -2.05E+00                        | —                               | 7.76E-02                                 | 9.17E-06                                 | 4.96E+04             | 4.52E-01           | 1.15E+00                         |
| Isodecanol                                         | 25339-17-7 | —                                              | —                                             | l                 | O    | 1.58E+02       | 1.67E-03                            | 3.27E+00                         | —                               | 4.84E-02                                 | 5.49E-06                                 | 3.43E+01             | 6.63E-03           | 4.02E+00                         |
| Isodrin                                            | 465-73-6   | —                                              | —                                             | s                 | O    | 3.65E+02       | 9.13E-02                            | 6.84E+00                         | —                               | 3.40E-02                                 | 4.49E-06                                 | 1.70E-02             | 7.77E-05           | 6.82E+00                         |
| Isopentane                                         | 78-78-4    | —                                              | —                                             | l                 | O    | 7.22E+01       | 6.28E+01                            | 2.74E+00                         | —                               | 8.21E-02                                 | 7.43E-06                                 | 4.24E+01             | 6.75E+02           | 3.36E+00                         |
| Isophorone                                         | 78-59-1    | —                                              | —                                             | l                 | O    | 1.38E+02       | 2.57E-04                            | 1.48E+00                         | —                               | 6.23E-02                                 | 6.76E-06                                 | 1.20E+04             | 4.10E-01           | 2.62E+00                         |
| Isopropyl acetate                                  | 108-21-4   | —                                              | —                                             | l                 | O    | 1.02E+02       | 1.16E-02                            | 1.02E+00                         | —                               | 7.35E-02                                 | 8.00E-06                                 | 2.14E+04             | 4.43E+01           | 1.19E+00                         |
| Isopropyl alcohol                                  | 67-63-0    | —                                              | —                                             | l                 | O    | 6.01E+01       | 3.70E-04                            | 5.30E-01                         | —                               | 9.59E-02                                 | 1.03E-05                                 | 1.97E+05             | 2.22E+01           | 5.00E-01                         |
| Isosafrole                                         | 120-58-1   | —                                              | —                                             | l                 | O    | 1.62E+02       | 1.28E-03                            | 2.87E+00                         | —                               | 5.59E-02                                 | 7.07E-06                                 | 1.43E+02             | 2.06E-02           | 2.92E+00                         |
| Kelthane (dicofol)                                 | 115-32-2   | —                                              | —                                             | s                 | OA   | 3.70E+02       | 8.20E-07                            | 4.10E+00                         | —                               | 3.91E-02                                 | 5.20E-06                                 | 7.00E-01             | 3.90E-08           | 5.10E+00                         |
| Kepone (chlordecone)                               | 143-50-0   | —                                              | —                                             | s                 | O    | 4.91E+02       | 1.04E-06                            | 4.43E+00                         | —                               | 4.22E-02                                 | 4.30E-06                                 | 7.60E+00             | 2.25E-07           | 4.91E+00                         |
| Lead (inorganic)                                   | 7439-92-1  | —                                              | —                                             | s                 | M    | 2.07E+02       | 0.00E+00                            | -                                | 1.00E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 7.29E-01                         |
| Leptophos                                          | 21609-90-5 | —                                              | —                                             | s                 | O    | 4.12E+02       | 1.31E-05                            | 5.12E+00                         | —                               | 3.39E-02                                 | 4.69E-06                                 | 1.96E-03             | 1.14E-09           | 6.88E+00                         |
| Limonene, d-*                                      | 5989-27-5  | —                                              | —                                             | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Lithium                                            | 7439-93-2  | 2.00E-02                                       | 4.00E-03                                      | s                 | M    | 6.94E+00       | 0.00E+00                            | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Magnesium*                                         | 7439-95-4  | —                                              | —                                             | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Malathion                                          | 121-75-5   | —                                              | —                                             | l                 | O    | 3.30E+02       | 9.98E-07                            | 2.46E+00                         | —                               | 1.50E-02                                 | 4.40E-06                                 | 1.45E+02             | 7.90E-06           | 2.29E+00                         |
| Maleic anhydride                                   | 108-31-6   | —                                              | —                                             | s                 | O    | 9.81E+01       | 8.31E-06                            | 1.41E+00                         | —                               | 9.50E-02                                 | 1.11E-05                                 | 8.65E+02             | 1.34E-03           | 1.62E+00                         |
| Maleic hydrazide                                   | 123-33-1   | —                                              | —                                             | s                 | O    | 1.12E+02       | 1.03E-10                            | 1.40E+00                         | —                               | 8.75E-02                                 | 8.75E-06                                 | 6.00E+03             | 7.50E-08           | -8.87E-01                        |
| Malononitrile                                      | 109-77-3   | —                                              | —                                             | s                 | O    | 6.61E+01       | 1.97E-07                            | 6.90E-01                         | —                               | 9.97E-02                                 | 1.09E-05                                 | 6.96E+06             | 3.79E-01           | -1.78E-01                        |
| Mancozeb                                           | 8018-01-7  | —                                              | —                                             | s                 | O    | 2.65E+02       | 1.81E-05                            | 1.13E+00                         | —                               | 5.69E-02                                 | 6.02E-06                                 | 6.20E+00             | 7.50E-06           | 1.33E+00                         |
| Manganese                                          | 7439-96-5  | 1.00E-01                                       | 5.00E-02                                      | s                 | M    | 5.49E+01       | 0.00E+00                            | —                                | 1.70E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | —                                              | —                                             | s                 | O    | 2.01E+02       | 1.18E-07                            | -1.50E+00                        | —                               | 5.12E-02                                 | 6.82E-06                                 | 6.50E+02             | 6.99E-06           | 3.39E+00                         |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | —                                              | —                                             | s                 | O    | 2.15E+02       | 1.00E-06                            | -1.76E+00                        | —                               | 4.70E-02                                 | 6.36E-06                                 | 2.80E+02             | 2.50E-05           | 3.13E+00                         |
| Mercury (pH = 4.9)                                 | 7439-97-6  | 5.50E-03                                       | 1.40E-02                                      | l                 | M    | 2.01E+02       | 4.74E-01                            | —                                | -1.40E+00                       | 3.07E-02                                 | 6.30E-06                                 | 3.00E-02             | 1.30E-03           | -4.71E-01                        |
| Mercury (pH=6.8)                                   | 7439-97-6  | 5.50E-03                                       | 1.40E-02                                      | l                 | M    | 2.01E+02       | 4.74E-01                            | —                                | 1.72E+00                        | 3.07E-02                                 | 6.30E-06                                 | 3.00E-02             | 1.30E-03           | -4.71E-01                        |
| Merphos                                            | 150-50-5   | —                                              | —                                             | l                 | O    | 2.99E+02       | 1.26E+00                            | 5.34E+00                         | —                               | 3.65E-02                                 | 4.75E-06                                 | 4.97E-03             | 3.83E-04           | 7.29E+00                         |
| Methacrylic acid (2-methyl-2-propenoic acid)       | 79-41-4    | —                                              | —                                             | l                 | O    | 8.61E+01       | 5.21E-04                            | -2.40E+00                        | —                               | 8.50E-02                                 | 9.59E-06                                 | 9.59E+04             | 1.06E+01           | 1.67E+00                         |
| Methacrylonitrile                                  | 126-98-7   | —                                              | —                                             | l                 | O    | 6.71E+01       | 3.03E-03                            | 5.30E-01                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 2.50E+04             | 6.80E+01           | 7.57E-01                         |
| Methanol                                           | 67-56-1    | —                                              | —                                             | l                 | O    | 3.20E+01       | 1.94E-04                            | -7.40E-01                        | —                               | 1.50E-01                                 | 1.64E-05                                 | 1.00E+06             | 1.22E+02           | -6.32E-01                        |
| Methapyrilene                                      | 91-80-5    | —                                              | —                                             | l                 | O    | 2.61E+02       | 1.18E-07                            | 1.30E+00                         | —                               | 4.00E-02                                 | 5.29E-06                                 | 2.03E+03             | 1.68E-05           | 3.15E+00                         |
| Methomyl                                           | 16752-77-5 | —                                              | —                                             | s                 | O    | 1.62E+02       | 7.48E-09                            | 2.20E+00                         | —                               | 4.07E-02                                 | 7.20E-06                                 | 5.80E+04             | 5.00E-05           | 6.09E-01                         |
| Methoxychlor                                       | 72-43-5    | —                                              | —                                             | s                 | O    | 3.46E+02       | 6.57E-04                            | 4.89E+00                         | —                               | 1.56E-02                                 | 4.46E-06                                 | 4.50E-02             | 1.23E-06           | 5.67E+00                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                           | CAS        | Br <sub>abg</sub><br>(µg/g DW)/<br>(µg/g soil) | Br <sub>bg</sub><br>(µg/g DW)/<br>(µg/g soil) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-----------------------------------------------|------------|------------------------------------------------|-----------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Methoxyethanol, 2-                            | 109-86-4   | —                                              | —                                             | l                 | O    | 7.61E+01       | 1.28E+00                            | 9.31E-01                         | —                               | 9.15E-02                                 | 1.02E-05                                 | 2.01E+01             | 6.20E+00           | -9.07E-01                        |
| Methyl acetate (acetic acid, methyl ester)    | 79-20-9    | —                                              | —                                             | l                 | O    | 7.41E+01       | 4.46E-03                            | 2.43E-01                         | —                               | 9.50E-02                                 | 1.01E-05                                 | 1.44E+05             | 1.58E+02           | 2.46E-01                         |
| Methyl acrylate                               | 96-33-3    | —                                              | —                                             | l                 | O    | 8.61E+01       | 9.15E-03                            | 6.56E-01                         | —                               | 8.70E-02                                 | 9.35E-06                                 | 4.03E+04             | 7.93E+01           | 7.30E-01                         |
| Methyl amyl ketone (2-heptanone)              | 110-43-0   | —                                              | —                                             | l                 | O    | 1.14E+02       | 3.64E-03                            | 1.69E+00                         | —                               | 6.32E-02                                 | 7.20E-06                                 | 6.06E+03             | 3.53E+00           | 2.03E+00                         |
| Methyl chrysene, 1-                           | 3351-28-8  | —                                              | —                                             | s                 | O    | 2.42E+02       | 1.16E-05                            | 6.65E+00                         | —                               | 4.09E-02                                 | 5.61E-06                                 | 2.53E-04             | 2.22E-10           | 6.76E+00                         |
| Methyl chrysene, 2-                           | 3351-32-4  | —                                              | —                                             | s                 | O    | 2.42E+02       | 1.18E-05                            | 6.65E+00                         | —                               | 4.09E-02                                 | 5.61E-06                                 | 3.54E-04             | 3.17E-10           | 6.76E+00                         |
| Methyl chrysene, 6-                           | 1705-85-7  | —                                              | —                                             | s                 | O    | 2.42E+02       | 1.17E-05                            | 6.55E+00                         | —                               | 4.09E-02                                 | 5.61E-06                                 | 1.07E-03             | 9.44E-10           | 6.76E+00                         |
| Methyl cyclohexane                            | 108-87-2   | —                                              | —                                             | l                 | O    | 9.82E+01       | 1.59E+01                            | 3.33E+00                         | —                               | 6.97E-02                                 | 7.59E-06                                 | 1.04E+01             | 3.08E+01           | 4.10E+00                         |
| Methyl ethyl ketone (2-butanone)              | 78-93-3    | —                                              | —                                             | l                 | O    | 7.21E+01       | 1.94E-03                            | 2.79E-01                         | —                               | 8.08E-02                                 | 9.80E-06                                 | 2.40E+05             | 9.10E+01           | 2.56E-01                         |
| Methyl iodide (iodomethane)                   | 74-88-4    | —                                              | —                                             | l                 | O    | 1.42E+02       | 2.36E-01                            | 1.31E+00                         | —                               | 1.02E-01                                 | 1.17E-05                                 | 1.24E+04             | 3.79E+02           | 1.55E+00                         |
| Methyl isobutyl ketone (4-methyl-2-pentanone) | 108-10-1   | —                                              | —                                             | l                 | O    | 1.00E+02       | 5.82E-03                            | 1.18E+00                         | —                               | 7.50E-02                                 | 7.80E-06                                 | 1.90E+04             | 1.45E+01           | 1.16E+00                         |
| Methyl mercury                                | 22967-92-6 | —                                              | —                                             | —                 | I    | 2.16E+02       | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | 7.63E-02                         |
| Methyl methacrylate                           | 80-62-6    | —                                              | —                                             | l                 | O    | 1.00E+02       | 1.33E-02                            | 1.36E+00                         | —                               | 7.70E-02                                 | 8.60E-06                                 | 1.60E+04             | 3.80E+01           | 1.28E+00                         |
| Methyl methanesulfonate                       | 66-27-3    | —                                              | —                                             | l                 | O    | 1.10E+02       | 3.25E-06                            | -7.54E-01                        | —                               | 7.52E-02                                 | 9.50E-06                                 | 4.95E+04             | 2.67E-02           | -7.67E-01                        |
| Methyl parathion                              | 298-00-0   | —                                              | —                                             | s                 | O    | 2.63E+02       | 5.82E-06                            | 2.81E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 5.00E+01             | 1.52E-05           | 2.75E+00                         |
| Methyl-1-butene, 2-                           | 563-46-2   | —                                              | —                                             | l                 | O    | 7.01E+01       | 1.41E+01                            | 2.23E+00                         | —                               | 8.57E-02                                 | 8.93E-06                                 | 1.38E+02             | 5.06E+02           | 2.72E+00                         |
| Methyl-1-propanal, 2- (isobutyraldehyde)      | 78-84-2    | —                                              | —                                             | l                 | O    | 7.21E+01       | 7.48E-03                            | 7.04E-01                         | —                               | 8.90E-02                                 | 9.36E-06                                 | 4.59E+04             | 8.89E+01           | 7.90E-01                         |
| Methyl-2-butene, 2-                           | 513-35-9   | —                                              | —                                             | l                 | O    | 7.01E+01       | 7.32E+00                            | 2.19E+00                         | —                               | 8.57E-02                                 | 8.93E-06                                 | 2.06E+02             | 3.93E+02           | 2.67E+00                         |
| Methyl-2-pentenal, 2-                         | 623-36-9   | —                                              | —                                             | l                 | O    | 9.81E+01       | 1.34E-02                            | 1.44E+00                         | —                               | 7.20E-02                                 | 8.05E-06                                 | 5.04E+03             | 1.26E+01           | 1.72E+00                         |
| Methylcholanthrene, 3-                        | 56-49-5    | —                                              | —                                             | s                 | O    | 2.68E+02       | 7.72E-07                            | 6.96E+00                         | —                               | 3.83E-02                                 | 5.40E-06                                 | 1.76E-04             | 6.64E-12           | 7.08E+00                         |
| Methylene bromide (dibromomethane)            | 74-95-3    | —                                              | —                                             | l                 | O    | 1.74E+02       | 3.49E-02                            | 2.26E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.10E+04             | 4.56E+01           | 1.52E+00                         |
| Methylene chloride (dichloromethane)          | 75-09-2    | —                                              | —                                             | l                 | O    | 8.49E+01       | 9.10E-02                            | 1.07E+00                         | —                               | 1.01E-01                                 | 1.17E-05                                 | 1.54E+04             | 4.55E+02           | 1.34E+00                         |
| Methylene-bis (2-chloroaniline) 4,4'-         | 101-14-4   | —                                              | —                                             | s                 | O    | 2.67E+02       | 1.40E-05                            | 3.90E+00                         | —                               | 1.99E-02                                 | 5.80E-06                                 | 7.24E+01             | 6.94E-05           | 3.47E+00                         |
| Methylmercury hydroxide                       | 1184-57-2  | —                                              | —                                             | s                 | OM   | 2.33E+02       | 5.47E-09                            | 1.92E-02                         | —                               | 1.05E-01                                 | 1.43E-05                                 | 1.00E+06             | 7.50E-03           | -1.33E+00                        |
| Methylnaphthalene, 1-                         | 90-12-0    | —                                              | —                                             | s                 | O    | 1.42E+02       | 1.64E-02                            | 3.36E+00                         | —                               | 6.31E-02                                 | 7.13E-06                                 | 2.80E+01             | 6.62E-02           | 3.72E+00                         |
| Methylnaphthalene, 2-                         | 91-57-6    | —                                              | —                                             | s                 | O    | 1.42E+02       | 1.85E-02                            | 3.63E+00                         | —                               | 6.29E-02                                 | 7.20E-06                                 | 2.54E+01             | 6.75E-02           | 3.72E+00                         |
| Methylpyrrolidone, N-                         | 872-50-4   | —                                              | —                                             | l                 | O    | 9.91E+01       | 1.83E-06                            | 1.01E-02                         | —                               | 7.16E-02                                 | 8.75E-06                                 | —                    | 4.90E-01           | 1.00E-02                         |
| Methylstyrene, alpha-                         | 98-83-9    | —                                              | —                                             | l                 | O    | 1.18E+02       | 1.95E-01                            | 2.87E+00                         | —                               | 6.31E-02                                 | 6.91E-06                                 | 6.11E+01             | 1.84E+00           | 3.53E+00                         |
| Methyltetrahydrofuran, 2-                     | 96-47-9    | —                                              | —                                             | l                 | O    | 8.61E+01       | 8.78E-03                            | 9.43E-01                         | —                               | 8.09E-02                                 | 8.72E-06                                 | 3.99E+04             | 7.44E+01           | 1.09E+00                         |
| Methyltetrahydropyran, 2-                     | 10141-72-7 | —                                              | —                                             | l                 | O    | 1.00E+02       | 8.30E-03                            | 1.28E+00                         | —                               | 7.19E-02                                 | 8.04E-06                                 | 1.23E+04             | 1.87E+01           | 1.52E+00                         |
| Metolachlor                                   | 51218-45-2 | —                                              | —                                             | l                 | O    | 2.84E+02       | 3.13E-08                            | 2.85E+00                         | —                               | 3.61E-02                                 | 5.10E-06                                 | 8.64E+02             | 2.29E-06           | 2.90E+00                         |
| Metribuzin                                    | 21087-64-9 | —                                              | —                                             | s                 | O    | 2.14E+02       | 4.99E-09                            | 3.48E-01                         | —                               | 4.51E-02                                 | 5.98E-06                                 | 1.21E+05             | 5.16E-05           | 3.72E-01                         |
| Mirex                                         | 2385-85-5  | —                                              | —                                             | s                 | O    | 5.46E+02       | 3.20E-01                            | 7.36E+00                         | —                               | 3.50E-02                                 | 4.08E-06                                 | 3.41E-08             | 7.50E-07           | 1.10E+01                         |
| Molinate                                      | 2212-67-1  | —                                              | —                                             | l                 | O    | 1.87E+02       | 5.25E-05                            | 1.70E+00                         | —                               | 5.65E-02                                 | 6.00E-06                                 | 9.00E+02             | 5.60E-03           | 2.91E+00                         |
| Molybdenum                                    | 7439-98-7  | 1.00E-01                                       | 6.00E-02                                      | s                 | M    | 9.59E+01       | 0.00E+00                            | —                                | 1.30E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| Monocrotophos                                 | 2157-98-4  | —                                              | —                                             | s                 | O    | 2.23E+02       | 1.24E-12                            | 3.18E-01                         | —                               | 4.48E-02                                 | 5.67E-06                                 | 8.02E+05             | 8.12E-08           | 4.84E-01                         |
| Morpholine                                    | 110-91-8   | —                                              | —                                             | l                 | O    | 8.71E+01       | 2.28E-06                            | -2.63E-02                        | —                               | 8.34E-02                                 | 9.44E-06                                 | 3.33E+07             | 1.59E+01           | -8.80E-01                        |
| Morpholine, N-butyl-                          | 1005-67-0  | —                                              | —                                             | l                 | O    | 1.43E+02       | 7.19E-05                            | 1.74E+00                         | —                               | 5.36E-02                                 | 6.01E-06                                 | 7.36E+04             | 6.80E-01           | 1.77E+00                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern            | CAS        | B <sub>fabg</sub><br>(μg/g DW)/<br>(μg/g soil) | B <sub>rbg</sub><br>(μg/g DW)/<br>(μg/g soil) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|--------------------------------|------------|------------------------------------------------|-----------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| MTBE (methyl tert-butyl ether) | 1634-04-4  | —                                              | —                                             | l                 | O    | 8.81E+01       | 2.44E-02                            | 1.15E+00                         | —                               | 7.92E-02                                 | 9.41E-05                                 | 4.80E+04             | 2.49E+02           | 1.43E+00                         |
| Naled                          | 300-76-5   | —                                              | —                                             | l                 | O    | 3.81E+02       | 2.71E-03                            | 2.12E+00                         | —                               | 4.40E-02                                 | 6.80E-06                                 | 1.50E+00             | 2.00E-04           | 1.60E+00                         |
| Naphthalene                    | 91-20-3    | —                                              | —                                             | s                 | O    | 1.28E+02       | 2.00E-02                            | 3.19E+00                         | —                               | 5.90E-02                                 | 7.50E-06                                 | 3.14E+01             | 8.89E-02           | 3.17E+00                         |
| Naphthoquinone, 1,4-           | 130-15-4   | —                                              | —                                             | s                 | O    | 1.58E+02       | 4.00E-05                            | 1.29E+00                         | —                               | 5.55E-02                                 | 7.09E-06                                 | 2.20E+02             | 1.34E-03           | 1.50E+00                         |
| Naphthylamine, 1-              | 134-32-7   | —                                              | —                                             | s                 | O    | 1.43E+02       | 8.64E-06                            | 2.64E+00                         | —                               | 5.89E-02                                 | 7.56E-06                                 | 5.84E+02             | 6.44E-04           | 2.64E+00                         |
| Naphthylamine, 2-              | 91-59-8    | —                                              | —                                             | s                 | O    | 1.43E+02       | 1.00E-06                            | 2.76E+00                         | —                               | 5.86E-02                                 | 7.46E-06                                 | 1.25E+02             | 6.76E-05           | 2.76E+00                         |
| Napropamide                    | 15299-99-7 | —                                              | —                                             | s                 | OB   | 2.71E+02       | 2.17E-07                            | 3.74E+00                         | —                               | 3.78E-02                                 | 5.05E-06                                 | 2.57E+01             | 3.77E-07           | 3.81E+00                         |
| Neopentyl glycol               | 126-30-7   | —                                              | —                                             | s                 | O    | 1.04E+02       | 5.11E-07                            | 2.54E-01                         | —                               | 7.23E-02                                 | 8.54E-06                                 | 2.81E+05             | 2.52E-02           | 2.22E-01                         |
| Nickel and compounds           | 7440-02-0  | 2.50E-02                                       | 8.00E-03                                      | s                 | M    | 5.87E+01       | 0.00E+00                            | —                                | 1.20E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | -5.71E-01                        |
| Nitrate-N                      | 14797-55-8 | —                                              | —                                             | —                 | I    | 6.20E+01       | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | 2.09E-01                         |
| Nitrite-N                      | 14797-65-0 | —                                              | —                                             | —                 | I    | 4.60E+01       | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | 5.64E-02                         |
| Nitroaniline, 2-               | 88-74-4    | —                                              | —                                             | s                 | O    | 1.38E+02       | 2.08E-05                            | 1.43E+00                         | —                               | 5.99E-02                                 | 7.18E-06                                 | 1.26E+03             | 4.75E-03           | 2.02E+00                         |
| Nitroaniline, 3-               | 99-09-2    | —                                              | —                                             | s                 | O    | 1.38E+02       | 2.31E-07                            | 1.60E+00                         | —                               | 6.73E-02                                 | 8.59E-06                                 | 4.56E+02             | 1.39E-05           | 1.62E+00                         |
| Nitroaniline, 4-               | 100-01-6   | —                                              | —                                             | s                 | O    | 1.38E+02       | 3.33E-08                            | 1.05E+00                         | —                               | 6.69E-02                                 | 8.59E-06                                 | 6.49E+02             | 2.86E-06           | 1.07E+00                         |
| Nitrobenzene                   | 98-95-3    | —                                              | —                                             | l                 | O    | 1.23E+02       | 8.56E-04                            | 2.12E+00                         | —                               | 7.60E-02                                 | 8.60E-06                                 | 1.90E+03             | 2.44E-01           | 1.81E+00                         |
| Nitroglycerin                  | 55-63-0    | —                                              | —                                             | l                 | O    | 2.27E+02       | 3.40E-06                            | 1.97E+00                         | —                               | 5.53E-02                                 | 7.34E-06                                 | 6.70E+04             | 1.00E-04           | 2.00E+00                         |
| Nitrophenol, 2-                | 88-75-5    | —                                              | —                                             | s                 | O    | 1.39E+02       | 2.21E-05                            | 1.32E+00                         | —                               | 6.87E-02                                 | 8.47E-06                                 | 1.73E+04             | 5.03E-02           | 2.35E+00                         |
| Nitrophenol, 3-                | 554-84-7   | —                                              | —                                             | s                 | O    | 1.39E+02       | 1.90E-11                            | 1.84E+00                         | —                               | 6.65E-02                                 | 8.61E-06                                 | 5.86E+03             | 7.81E-05           | 1.97E+00                         |
| Nitrophenol, 4-                | 100-02-7   | —                                              | —                                             | s                 | O    | 1.39E+02       | 3.24E-08                            | 5.00E-01                         | —                               | 6.73E-02                                 | 8.66E-06                                 | 4.49E+03             | 1.91E-05           | 1.73E+00                         |
| Nitropropane, 2-               | 79-46-9    | —                                              | —                                             | l                 | O    | 8.91E+01       | 5.15E-03                            | 5.44E-01                         | —                               | 9.23E-02                                 | 1.01E-05                                 | 1.70E+04             | 1.82E+01           | 8.72E-01                         |
| Nitroquinoline-N-oxide, 4-     | 56-57-5    | —                                              | —                                             | s                 | O    | 1.90E+02       | 8.23E-13                            | 1.07E+00                         | —                               | 6.78E-02                                 | 7.44E-06                                 | 1.17E+07             | 9.23E-07           | 1.09E+00                         |
| Nitrosodiethanolamine          | 1116-54-7  | —                                              | —                                             | l                 | O    | 1.34E+02       | 2.05E-09                            | 4.76E-01                         | —                               | 7.27E-02                                 | 7.70E-06                                 | 7.33E+07             | 5.00E-04           | -1.28E+00                        |
| Nitrosodiethylamine, n-        | 55-18-5    | —                                              | —                                             | l                 | O    | 1.02E+02       | 3.60E-05                            | 4.77E-01                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.47E+05             | 1.42E+00           | 3.44E-01                         |
| Nitrosodimethylamine, n-       | 62-75-9    | —                                              | —                                             | l                 | O    | 7.41E+01       | 2.16E-05                            | 5.56E-01                         | —                               | 1.34E-01                                 | 9.72E-06                                 | 1.00E+06             | 5.37E+00           | -6.39E-01                        |
| Nitrosodi-n-butylamine, n-     | 924-16-3   | —                                              | —                                             | —                 | O    | 1.58E+02       | 3.58E-03                            | 2.36E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.20E+03             | 2.89E-01           | 2.31E+00                         |
| Nitrosodi-n-propylamine, n-    | 621-64-7   | —                                              | —                                             | s                 | O    | 1.30E+02       | 9.35E-05                            | 1.29E+00                         | —                               | 5.45E-02                                 | 8.17E-06                                 | 9.89E+03             | 4.00E-01           | 1.35E+00                         |
| Nitrosodiphenylamine           | 86-30-6    | —                                              | —                                             | s                 | O    | 1.98E+02       | 2.08E-04                            | 2.52E+00                         | —                               | 3.12E-02                                 | 6.35E-06                                 | 3.51E+01             | 9.88E-02           | 3.16E+00                         |
| Nitroso-methyl-ethyl-amine, n- | 10595-95-6 | —                                              | —                                             | —                 | O    | 8.81E+01       | 3.70E-05                            | 1.32E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 3.00E+05             | 2.28E+00           | -1.47E-01                        |
| Nitrosomorpholine, N-          | 59-89-2    | —                                              | —                                             | s                 | O    | 1.16E+02       | 3.99E-08                            | -1.37E+00                        | —                               | 7.41E-02                                 | 9.22E-06                                 | 4.71E+06             | 2.96E-02           | -1.39E+00                        |
| Nitroso-n-ethylurea, n-        | 759-73-9   | —                                              | —                                             | s                 | O    | 1.17E+02       | 1.05E-04                            | 1.51E+00                         | —                               | 8.08E-02                                 | 8.25E-06                                 | 4.85E+04             | 7.97E-01           | -2.47E-02                        |
| Nitrosopiperidine, N-          | 100-75-4   | —                                              | —                                             | l                 | O    | 1.14E+02       | 1.30E-05                            | 7.28E-01                         | —                               | 6.90E-02                                 | 8.57E-06                                 | 4.91E+04             | 1.00E-01           | 7.40E-01                         |
| Nitrosopyrrolidine, n-         | 930-55-2   | —                                              | —                                             | l                 | O    | 1.00E+02       | 7.48E-07                            | -1.87E-01                        | —                               | 8.00E-02                                 | 8.00E-06                                 | 7.80E+05             | 1.75E-01           | 2.31E-01                         |
| Nitrotoluene, m-               | 99-08-1    | —                                              | —                                             | l                 | O    | 1.37E+02       | 2.24E-03                            | 2.15E+00                         | —                               | 6.42E-02                                 | 7.69E-06                                 | 4.98E+02             | 1.50E-01           | 2.36E+00                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                                                              | CAS        | Br <sub>abg</sub><br>((μg/g DW)/<br>(μg/g soil)) | Br <sub>bg</sub><br>((μg/g DW)/<br>(μg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|----------------------------------------------------------------------------------|------------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Nitrotoluene, o-                                                                 | 88-72-2    | —                                                | —                                               | l                 | O    | 1.37E+02       | 1.87E-03                            | 2.15E+00                         | —                               | 6.47E-02                                 | 7.73E-06                                 | 6.00E+02             | 1.50E-01           | 2.36E+00                         |
| Nitrotoluene, p-                                                                 | 99-99-0    | —                                                | —                                               | s                 | O    | 1.37E+02       | 2.29E-03                            | 2.15E+00                         | —                               | 6.40E-02                                 | 7.70E-06                                 | 4.00E+02             | 1.20E-01           | 2.36E+00                         |
| Nonachlor, cis-                                                                  | 5103-73-1  | —                                                | —                                               | s                 | O    | 4.10E+02       | 2.02E-03                            | 5.08E+00                         | —                               | 1.18E-02                                 | 4.37E-06                                 | 5.60E-02             | 1.00E-05           | 6.60E+00                         |
| Nonachlor, trans-                                                                | 39765-80-5 | —                                                | —                                               | s                 | O    | 4.10E+02       | 2.02E-03                            | 5.08E+00                         | —                               | 1.18E-02                                 | 4.37E-06                                 | 5.60E-02             | 1.00E-05           | 6.60E+00                         |
| Nonanal                                                                          | 124-19-6   | —                                                | —                                               | l                 | O    | 1.42E+02       | 2.34E-02                            | 2.85E+00                         | —                               | 5.29E-02                                 | 6.29E-06                                 | 1.24E+02             | 3.71E-01           | 3.50E+00                         |
| Nonene, 1-n                                                                      | 124-11-8   | —                                                | —                                               | l                 | o    | 1.26E+02       | 8.81E+01                            | 4.45E+00                         | —                               | 5.56E-02                                 | 5.86E-06                                 | 3.00E-01             | 3.80E+00           | 5.52E+00                         |
| Nonylphenol, 4-n-                                                                | 104-40-5   | —                                                | —                                               | l                 | OA   | 2.20E+02       | 6.96E-05                            | 6.48E+00                         | —                               | 3.93E-02                                 | 5.27E-06                                 | 7.23E-01             | 4.14E-06           | 6.48E+00                         |
| Nonylphenol ethoxylate                                                           | 9016-45-9  | —                                                | —                                               | l                 | O    | 2.92E+02       | 8.19E-04                            | 6.88E+00                         | —                               | 3.29E-02                                 | 4.08E-06                                 | 2.79E-02             | 1.38E-06           | 7.00E+00                         |
| Octamethylpyrophosphoramidate                                                    | 152-16-9   | —                                                | —                                               | l                 | O    | 2.86E+02       | 1.16E-08                            | -5.09E-01                        | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.00E+06             | 9.88E-04           | -1.01E+00                        |
| Octanone                                                                         | 106-68-3   | —                                                | —                                               | l                 | O    | 1.28E+02       | 6.35E-03                            | 2.15E+00                         | —                               | 5.78E-02                                 | 6.67E-06                                 | 1.65E+03             | 1.50E+00           | 2.61E+00                         |
| Oxamyl                                                                           | 23135-22-0 | —                                                | —                                               | s                 | O    | 2.19E+02       | 1.60E-11                            | 6.99E-01                         | —                               | 5.57E-02                                 | 5.75E-06                                 | 2.80E+05             | 3.83E-07           | -1.20E+00                        |
| Oxychlorthane                                                                    | 27304-13-8 | —                                                | —                                               | s                 | O    | 4.10E+02       | 2.02E-03                            | 5.08E+00                         | —                               | 1.18E-02                                 | 4.37E-06                                 | 5.60E-02             | 1.00E-05           | 6.60E+00                         |
| Paraquat                                                                         | 1910-42-5  | —                                                | —                                               | s                 | OB   | 2.57E+02       | 2.91E-11                            | -4.81E+00                        | —                               | 3.74E-02                                 | 3.57E-06                                 | 7.00E+05             | 1.45E-06           | -4.50E+00                        |
| Parathion (ethyl parathion)                                                      | 56-38-2    | —                                                | —                                               | s                 | O    | 2.91E+02       | 2.37E-05                            | 3.75E+00                         | —                               | 1.70E-02                                 | 5.80E-06                                 | 1.18E+01             | 1.73E-05           | 3.73E+00                         |
| Pebulate                                                                         | 1114-71-2  | —                                                | —                                               | l                 | O    | 2.03E+02       | 9.85E-04                            | 2.63E+00                         | —                               | 5.10E-02                                 | 5.38E-06                                 | 9.20E+01             | 8.85E-03           | 3.51E+00                         |
| Pendimethalin                                                                    | 40487-42-1 | —                                                | —                                               | s                 | O    | 2.81E+02       | 1.97E-05                            | 5.28E+00                         | —                               | 3.81E-02                                 | 5.26E-06                                 | 5.69E-01             | 7.31E-07           | 5.37E+00                         |
| Pentachlorobenzene                                                               | 608-93-5   | —                                                | —                                               | s                 | O    | 2.50E+02       | 3.16E-02                            | 4.50E+00                         | —                               | 6.70E-02                                 | 6.30E-06                                 | 6.50E-01             | 1.67E-03           | 5.22E+00                         |
| Pentachloroethane                                                                | 76-01-7    | —                                                | —                                               | l                 | O    | 2.02E+02       | 2.15E-02                            | 2.28E+00                         | —                               | 6.37E-02                                 | 7.88E-06                                 | 6.19E+02             | 1.20E+00           | 2.78E+00                         |
| Pentachloronitrobenzene                                                          | 82-68-8    | —                                                | —                                               | s                 | O    | 2.95E+02       | 2.57E-02                            | 4.11E+00                         | —                               | 1.59E-02                                 | 6.10E-06                                 | 7.11E-02             | 1.13E-04           | 5.03E+00                         |
| Pentachlorophenol                                                                | 87-86-5    | —                                                | —                                               | s                 | OA   | 2.66E+02       | 1.16E-05                            | 2.61E+00                         | —                               | 5.60E-02                                 | 6.10E-06                                 | 1.40E+01             | 1.70E-05           | 4.74E+00                         |
| Pentadiene, 1,3-cis-                                                             | 1574-41-0  | —                                                | —                                               | l                 | O    | 6.81E+01       | 2.42E+00                            | 2.08E+00                         | —                               | 8.73E-02                                 | 8.10E-06                                 | 5.62E+02             | 3.65E+02           | 2.53E+00                         |
| Pentadiene, 1,3-trans-                                                           | 2004-70-8  | —                                                | —                                               | l                 | O    | 6.81E+01       | 1.31E+00                            | 1.95E+00                         | —                               | 8.75E-02                                 | 8.74E-06                                 | 8.94E+02             | 3.15E+02           | 2.37E+00                         |
| Pentaerythritol tetranitrate (PETN)                                              | 78-11-5    | —                                                | —                                               | s                 | O    | 3.16E+02       | 5.60E-05                            | 3.80E+00                         | —                               | 4.48E-02                                 | 6.20E-06                                 | 2.66E+01             | 8.63E-05           | 3.86E+00                         |
| Pentane                                                                          | 109-66-0   | —                                                | —                                               | l                 | O    | 7.22E+01       | 4.50E+01                            | 3.48E+00                         | —                               | 8.26E-01                                 | 8.07E-06                                 | 4.05E+01             | 4.62E+02           | 3.54E+00                         |
| Pentane, 2-methyl-                                                               | 107-83-5   | —                                                | —                                               | l                 | O    | 8.62E+01       | 7.44E+01                            | 3.26E+00                         | —                               | 7.34E-02                                 | 6.89E-06                                 | 1.25E+01             | 1.97E+02           | 4.01E+00                         |
| Pentane, 3-methyl-                                                               | 96-14-0    | —                                                | —                                               | l                 | O    | 8.62E+01       | 5.78E+01                            | 3.21E+00                         | —                               | 7.38E-02                                 | 6.96E-06                                 | 1.48E+01             | 1.81E+02           | 3.96E+00                         |
| Pentanediol, 1,5-                                                                | 111-29-5   | —                                                | —                                               | l                 | O    | 1.04E+02       | 2.51E-08                            | 1.47E-01                         | —                               | 7.14E-02                                 | 8.57E-06                                 | 7.44E+04             | 3.27E-04           | 1.49E-01                         |
| Pentanol, 1-                                                                     | 71-41-0    | —                                                | —                                               | l                 | O    | 8.81E+01       | 6.10E-04                            | 1.35E+00                         | —                               | 7.44E-02                                 | 7.77E-06                                 | 1.50E+04             | 1.90E+00           | 1.61E+00                         |
| Pentanol, 4-methyl-2-                                                            | 108-11-2   | —                                                | —                                               | l                 | O    | 1.02E+02       | 9.33E-04                            | 1.33E+00                         | —                               | 6.72E-02                                 | 7.08E-06                                 | 1.47E+04             | 2.46E+00           | 1.58E+00                         |
| Pentanone, 2-                                                                    | 107-87-9   | —                                                | —                                               | l                 | O    | 8.61E+01       | 2.54E-03                            | 9.31E-01                         | —                               | 7.78E-02                                 | 8.46E-06                                 | 5.40E+04             | 2.91E+01           | 1.08E+00                         |
| Pentene, 2-                                                                      | 109-68-2   | —                                                | —                                               | l                 | O    | 7.01E+01       | 7.90E+00                            | 2.40E+00                         | —                               | 8.48E-02                                 | 7.87E-06                                 | 1.86E+02             | 3.80E+02           | 2.93E+00                         |
| Pentyne, 1-                                                                      | 627-19-0   | —                                                | —                                               | l                 | O    | 6.81E+01       | 1.35E+00                            | 1.92E+00                         | —                               | 8.92E-02                                 | 8.84E-06                                 | 8.34E+02             | 3.03E+02           | 2.32E+00                         |
| Perchlorate                                                                      | 14797-73-0 | —                                                | —                                               | s                 | I    | 9.95E+01       | 0.00E+00                            | —                                | -5.00E-01                       | —                                        | —                                        | —                    | 0.00E+00           | 0.00E+00                         |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | —                                                | —                                               | s                 | O    | 4.99E+02       | 3.25E-08                            | 3.34E+00                         | —                               | 3.92E-02                                 | 9.00E-06                                 | 5.70E+02             | 5.91E-09           | 2.45E+00                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                                                           | CAS        | B <sub>ragb</sub><br>((μg/g DW)/<br>(μg/g soil)) | B <sub>rbg</sub><br>((μg/g DW)/<br>(μg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-------------------------------------------------------------------------------|------------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDa]            | 2058-94-8  | —                                                | —                                               | s                 | O    | 5.63E+02       | 1.27E-05                            | 3.18E+00                         | —                               | 3.57E-02                                 | 7.97E-06                                 | 5.33E-01             | 2.14E-07           | 3.59E+00                         |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                 | 2706-90-3  | —                                                | —                                               | s                 | O    | 2.63E+02       | 1.03E-10                            | 1.58E+00                         | —                               | 5.36E-02                                 | 1.17E-05                                 | 1.07E+05             | 7.15E-07           | -7.00E-02                        |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                 | 307-24-4   | —                                                | —                                               | s                 | O    | 3.13E+02       | 7.07E-10                            | 1.91E+00                         | —                               | 4.88E-02                                 | 1.07E-05                                 | 1.15E+05             | 5.67E-07           | 5.40E-01                         |
| Perfluorododecanoic acid (Dodecanoic acid, tricosafuoro-) [PFDoA]             | 307-55-1   | —                                                | —                                               | s                 | O    | 6.13E+02       | 9.36E-05                            | 3.45E+00                         | —                               | 3.41E-02                                 | 7.63E-06                                 | 6.71E-02             | 1.83E-07           | 3.68E+00                         |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]               | 335-67-1   | —                                                | —                                               | s                 | O    | 4.13E+02       | 3.31E-08                            | 2.31E+00                         | —                               | 4.21E-02                                 | 9.30E-06                                 | 9.50E+03             | 3.57E-07           | 1.76E+00                         |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                | 335-76-2   | —                                                | —                                               | s                 | O    | 5.13E+02       | 1.72E-06                            | 3.17E+00                         | —                               | 3.75E-02                                 | 8.34E-06                                 | 4.20E+00             | 2.50E-07           | 2.98E+00                         |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafuoro-) [PFDS] | 335-77-3   | —                                                | —                                               | s                 | O    | 5.99E+02       | 1.76E-06                            | 3.53E+00                         | —                               | 3.54E-02                                 | 8.21E-06                                 | 8.20E-02             | 4.29E-09           | 3.59E+00                         |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS] | 355-46-4   | —                                                | —                                               | s                 | O    | 3.99E+02       | 6.02E-10                            | 2.70E+00                         | —                               | 4.45E-02                                 | 1.01E-05                                 | 3.07E+02             | 8.12E-09           | 1.15E+00                         |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                    | 375-22-4   | —                                                | —                                               | s                 | O    | 2.13E+02       | 1.51E-11                            | 1.32E+00                         | —                               | 6.00E-02                                 | 1.29E-05                                 | 7.58E+05             | 9.01E-07           | -6.80E-01                        |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]     | 375-73-5   | —                                                | —                                               | s                 | O    | 2.99E+02       | 1.12E-11                            | 1.47E+00                         | —                               | 5.25E-02                                 | 1.16E-05                                 | 1.74E+04             | 1.12E-08           | -7.00E-02                        |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]              | 375-85-9   | —                                                | —                                               | s                 | O    | 3.63E+02       | 4.84E-09                            | 2.19E+00                         | —                               | 4.51E-02                                 | 9.92E-06                                 | 1.94E+03             | 4.50E-07           | 1.15E+00                         |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]               | 375-95-1   | —                                                | —                                               | s                 | O    | 4.63E+02       | 2.33E-07                            | 2.33E+00                         | —                               | 3.96E-02                                 | 8.78E-06                                 | 3.28E+01             | 2.92E-07           | 2.37E+00                         |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosafuoro-) [PFTeDA]    | 376-06-7   | —                                                | —                                               | s                 | O    | 7.13E+02       | 5.09E-03                            | 3.98E+00                         | —                               | 3.15E-02                                 | 7.08E-06                                 | 1.05E-03             | 1.34E-07           | 5.02E+00                         |
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosafuoro-) [PFTTrDA]       | 72629-94-8 | —                                                | —                                               | s                 | O    | 6.63E+02       | 6.88E-04                            | 3.71E+00                         | —                               | 3.27E-02                                 | 7.34E-06                                 | 8.39E-03             | 1.56E-07           | 4.35E+00                         |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA]   | 754-91-6   | —                                                | —                                               | s                 | O    | 4.99E+02       | 1.05E+03                            | 4.10E+00                         | —                               | 3.91E-02                                 | 9.00E-06                                 | 4.88E-02             | 3.13E-01           | 5.80E+00                         |
| Perylene                                                                      | 198-55-0   | —                                                | —                                               | s                 | O    | 2.52E+02       | 3.50E-13                            | 6.59E+00                         | —                               | 4.06E-02                                 | 5.49E-06                                 | 1.31E-04             | 1.11E-10           | 6.70E+00                         |
| Phenacetin                                                                    | 62-44-2    | —                                                | —                                               | s                 | O    | 1.79E+02       | 8.80E-09                            | 1.43E+00                         | —                               | 5.04E-02                                 | 6.65E-06                                 | 3.60E+02             | 3.30E-07           | 1.45E+00                         |
| Phenanthrene                                                                  | 85-01-8    | —                                                | —                                               | s                 | O    | 1.78E+02       | 5.40E-03                            | 4.15E+00                         | —                               | 3.33E-02                                 | 7.47E-06                                 | 9.94E-01             | 6.80E-04           | 4.34E+00                         |
| Phenanthridine                                                                | 229-87-8   | —                                                | —                                               | s                 | O    | 1.79E+02       | 1.83E-06                            | 3.24E+00                         | —                               | 5.46E-02                                 | 7.19E-06                                 | 2.50E+01             | 4.30E-06           | 3.30E+00                         |
| Phenol                                                                        | 108-95-2   | —                                                | —                                               | s                 | O    | 9.41E+01       | 2.47E-05                            | 1.24E+00                         | —                               | 8.20E-02                                 | 9.10E-06                                 | 8.70E+04             | 4.63E-01           | 1.51E+00                         |
| Phenol, 4-tert-butyl-                                                         | 98-54-4    | —                                                | —                                               | s                 | O    | 1.50E+02       | 7.03E-05                            | 2.94E+00                         | —                               | 5.57E-02                                 | 6.25E-06                                 | 1.83E+02             | 1.57E-03           | 3.62E+00                         |
| Phenothiazine                                                                 | 92-84-2    | —                                                | —                                               | s                 | O    | 1.99E+02       | 1.46E-06                            | 3.87E+00                         | —                               | 5.09E-02                                 | 6.32E-06                                 | 1.39E-02             | 1.87E-09           | 4.19E+00                         |
| Phenyl mercuric acetate                                                       | 62-38-4    | —                                                | —                                               | s                 | O    | 3.37E+02       | 3.41E-09                            | 2.20E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 4.37E+03             | 3.04E-06           | 8.90E-01                         |
| Phenylene diamine, m-                                                         | 108-45-2   | —                                                | —                                               | s                 | O    | 1.08E+02       | 9.56E-07                            | 4.14E-02                         | —                               | 6.63E-02                                 | 9.90E-06                                 | 3.51E+05             | 2.28E-02           | -3.91E-01                        |
| Phenylene diamine, p-                                                         | 106-50-3   | —                                                | —                                               | s                 | O    | 1.08E+02       | 5.24E-08                            | 4.14E-02                         | —                               | 7.15E-02                                 | 8.92E-06                                 | 3.80E+04             | 4.60E-03           | -3.91E-01                        |
| Phorate                                                                       | 298-02-2   | —                                                | —                                               | l                 | O    | 2.60E+02       | 4.99E-04                            | 3.74E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 4.40E+01             | 1.30E-03           | 3.37E+00                         |
| Phosalone                                                                     | 2310-17-0  | —                                                | —                                               | s                 | O    | 3.68E+02       | 1.95E-05                            | 3.06E+00                         | —                               | 3.80E-02                                 | 4.97E-06                                 | 7.77E+01             | 7.53E-05           | 3.15E+00                         |
| Phosdrin (mevinphos)                                                          | 7786-34-7  | —                                                | —                                               | l                 | O    | 2.24E+02       | 3.28E-09                            | -9.00E-01                        | —                               | 4.72E-02                                 | 6.06E-06                                 | 1.24E+07             | 1.81E-02           | -7.00E-01                        |
| Phosmet                                                                       | 732-11-6   | —                                                | —                                               | s                 | O    | 3.17E+02       | 8.02E-08                            | 2.21E+00                         | —                               | 4.07E-02                                 | 5.37E-06                                 | 3.70E+03             | 1.71E-05           | 1.53E+00                         |
| Phosphine                                                                     | 7803-51-2  | —                                                | —                                               | g                 | I    | 3.40E+01       | 1.46E+02                            | -                                | —                               | 3.81E-01                                 | 1.82E-05                                 | 4.00E+02             | 3.14E+04           | -2.71E-01                        |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                          | CAS        | Br <sub>abg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Br <sub>bg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|----------------------------------------------|------------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Phosphorotriothic acid, S,S,S-tributyl ester | 78-48-8    | —                                                | —                                               | s                 | O    | 3.15E+02       | 1.98E-03                            | 6.00E+00                         | —                               | 3.34E-02                                 | 4.32E-06                                 | 1.23E-03             | 1.41E-07           | 6.10E+00                         |
| Phosphorus, total*                           | 7723-14-0  | —                                                | —                                               | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Phosphorus, white                            | 7723-14-0  | —                                                | —                                               | s                 | I    | 1.24E+02       | 5.65E-02                            | 3.05E+00                         | —                               | —                                        | —                                        | 3.00E+00             | 2.50E-02           | 3.08E+00                         |
| Phthalic anhydride                           | 85-44-9    | —                                                | —                                               | s                 | O    | 1.48E+02       | 2.54E-07                            | 1.90E+00                         | —                               | 6.36E-02                                 | 7.90E-06                                 | 6.20E+03             | 2.00E-04           | 2.07E+00                         |
| Picloram                                     | 1918-02-1  | —                                                | —                                               | s                 | O    | 2.41E+02       | 1.01E-07                            | -6.00E-02                        | —                               | 5.50E-02                                 | 7.27E-06                                 | 2.82E+02             | 2.15E-06           | 2.94E+00                         |
| Picoline, 2- (2-methylpyridine)              | 109-06-8   | —                                                | —                                               | l                 | O    | 9.31E+01       | 6.21E-04                            | 1.20E+00                         | —                               | 7.77E-02                                 | 8.86E-06                                 | 6.14E+04             | 7.48E+00           | 1.28E+00                         |
| Polybrominated biphenyls (PBBs)              | 67774-32-7 | —                                                | —                                               | s                 | O    | 6.28E+02       | 1.62E-04                            | 3.33E+00                         | —                               | —                                        | 4.63E-06                                 | 1.10E-02             | 5.20E-08           | 6.39E+00                         |
| Polychlorinated biphenyls (PCBs)             | 1336-36-3  | —                                                | —                                               | l                 | O    | 2.90E+02       | 1.75E-02                            | 5.72E+00                         | —                               | 1.04E-01                                 | 1.00E-05                                 | 5.55E-02             | 7.60E-05           | 6.30E+00                         |
| Potassium*                                   | 7440-09-7  | —                                                | —                                               | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Primene                                      | 68955-53-3 | —                                                | —                                               | l                 | O    | 1.71E+02       | 3.24E-03                            | 3.96E+00                         | —                               | 4.60E-02                                 | 1.08E-03                                 | 9.56E+01             | 3.30E-02           | 4.03E+00                         |
| Prometon (pramitol)                          | 1610-18-0  | —                                                | —                                               | s                 | O    | 2.25E+02       | 7.32E-07                            | 2.78E+00                         | —                               | 4.25E-02                                 | 5.54E-06                                 | 5.76E+01             | 3.43E-06           | 2.88E+00                         |
| Prometryn                                    | 7287-19-6  | —                                                | —                                               | s                 | O    | 2.41E+02       | 4.99E-08                            | 3.39E+00                         | —                               | 3.89E-02                                 | 5.06E-06                                 | 2.09E+01             | 7.90E-08           | 3.62E+00                         |
| Pronamide                                    | 23950-58-5 | —                                                | —                                               | s                 | O    | 2.56E+02       | 3.74E-04                            | 2.30E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.50E+01             | 4.00E-04           | 3.57E+00                         |
| Propanal (propionaldehyde)                   | 123-38-6   | —                                                | —                                               | l                 | O    | 5.81E+01       | 4.40E-03                            | 3.40E-01                         | —                               | 1.04E-01                                 | 1.07E-05                                 | 1.09E+05             | 1.51E+02           | 3.30E-01                         |
| Propane, 1-bromo-                            | 106-94-5   | —                                                | —                                               | l                 | O    | 1.23E+02       | 1.63E-01                            | 1.59E+00                         | —                               | 8.28E-02                                 | 8.63E-06                                 | 3.98E+03             | 9.67E+01           | 1.91E+00                         |
| Propanil                                     | 709-98-8   | —                                                | —                                               | s                 | OA   | 2.18E+02       | 8.47E-08                            | 2.96E+00                         | —                               | 4.93E-02                                 | 6.59E-06                                 | 1.27E+02             | 8.99E-07           | 2.97E+00                         |
| Propanoic acid (propionic acid)              | 79-09-4    | —                                                | —                                               | l                 | OA   | 7.41E+01       | 1.54E-05                            | -2.79E+00                        | —                               | 9.01E-02                                 | 1.04E-05                                 | 1.92E+05             | 2.90E+00           | 4.95E-01                         |
| Propanol, 1-                                 | 71-23-8    | —                                                | —                                               | l                 | O    | 6.01E+01       | 4.66E-04                            | 5.70E-01                         | —                               | 9.75E-02                                 | 1.05E-05                                 | 1.21E+05             | 1.71E+01           | 6.21E-01                         |
| Propargite                                   | 2312-35-8  | —                                                | —                                               | l                 | O    | 3.50E+02       | 1.44E-06                            | 3.75E+00                         | —                               | 3.94E-02                                 | 4.20E-06                                 | 5.00E-01             | 4.48E-08           | 3.73E+00                         |
| Propargyl alcohol                            | 107-19-7   | —                                                | —                                               | l                 | O    | 5.61E+01       | 1.34E-05                            | 7.31E-01                         | —                               | 1.04E-01                                 | 1.24E-05                                 | 5.57E+06             | 1.20E+01           | -4.22E-01                        |
| Propazine                                    | 139-40-2   | —                                                | —                                               | s                 | O    | 2.30E+02       | 2.15E-06                            | 3.04E+00                         | —                               | 4.40E-02                                 | 5.69E-06                                 | 7.23E+00             | 1.23E-06           | 3.25E+00                         |
| Propham                                      | 122-42-9   | —                                                | —                                               | s                 | O    | 1.79E+02       | 5.30E-06                            | 1.71E+00                         | —                               | 5.71E-02                                 | 6.28E-06                                 | 2.50E+02             | 1.35E-04           | 2.66E+00                         |
| Propionitrile (propane nitrile)              | 107-12-0   | —                                                | —                                               | l                 | O    | 5.51E+01       | 1.02E-03                            | 2.15E-01                         | —                               | 1.02E-01                                 | 1.72E-05                                 | 9.73E+04             | 3.28E+01           | 1.73E-01                         |
| Propyl acetate, n-                           | 109-60-4   | —                                                | —                                               | l                 | O    | 1.02E+02       | 8.89E-03                            | 1.07E+00                         | —                               | 7.36E-02                                 | 8.09E-06                                 | 1.84E+04             | 2.93E+01           | 1.26E+00                         |
| Propylbenzene, n-                            | 103-65-1   | —                                                | —                                               | l                 | O    | 1.20E+02       | 4.24E-01                            | 3.03E+00                         | —                               | 6.22E-02                                 | 7.21E-06                                 | 4.20E+01             | 2.71E+00           | 3.73E+00                         |
| Propylene glycol                             | 57-55-6    | —                                                | —                                               | —                 | O    | 7.61E+01       | 2.06E-07                            | -5.67E-01                        | —                               | 1.06E-01                                 | 1.23E-05                                 | 1.00E+05             | 2.05E-02           | -9.21E-01                        |
| Propylene glycol monomethyl ether            | 107-98-2   | —                                                | —                                               | —                 | O    | 9.01E+01       | 1.40E-05                            | -1.89E-01                        | —                               | 9.45E-02                                 | 1.09E-05                                 | 1.00E+05             | 1.18E+01           | -4.37E-01                        |
| Propylene oxide                              | 75-56-9    | —                                                | —                                               | l                 | O    | 5.81E+01       | 3.47E-03                            | 1.02E-01                         | —                               | 1.04E-01                                 | 1.16E-05                                 | 4.76E+05             | 5.32E+02           | 3.00E-02                         |
| Propylene tetramer                           | 6842-15-5  | —                                                | —                                               | l                 | O    | 1.60E+02       | 1.20E+02                            | 5.40E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 3.40E-02             | 4.79E-01           | —                                |
| Prothiofos (Tokuthion)                       | 34643-46-4 | —                                                | —                                               | l                 | O    | 3.45E+02       | 5.72E-03                            | 7.39E+00                         | —                               | 3.56E-02                                 | 4.58E-06                                 | 6.23E-03             | 1.89E-06           | 7.36E+00                         |
| Pyrene                                       | 129-00-0   | —                                                | —                                               | s                 | O    | 2.02E+02       | 4.57E-04                            | 4.58E+00                         | —                               | 2.72E-02                                 | 7.24E-06                                 | 1.35E-01             | 4.25E-06           | 4.93E+00                         |
| Pyridine                                     | 110-86-1   | —                                                | —                                               | l                 | O    | 7.91E+01       | 2.91E-01                            | 6.43E-01                         | —                               | 9.10E-02                                 | 7.60E-06                                 | 3.00E+02             | 2.00E+01           | 8.04E-01                         |
| Quinoline                                    | 91-22-5    | —                                                | —                                               | l                 | O    | 1.29E+02       | 1.15E-04                            | 2.76E+00                         | —                               | 5.46E-02                                 | 8.31E-06                                 | 6.78E+03             | 9.60E-02           | 2.14E+00                         |
| Ronnel                                       | 299-84-3   | —                                                | —                                               | s                 | O    | 3.22E+02       | 1.32E-03                            | 3.93E+00                         | —                               | 4.62E-02                                 | 5.54E-06                                 | 2.28E+00             | 1.01E-04           | 4.86E+00                         |
| Safrole                                      | 94-59-7    | —                                                | —                                               | l                 | O    | 1.62E+02       | 3.09E-03                            | 2.97E+00                         | —                               | 5.60E-02                                 | 7.01E-06                                 | 1.37E+02             | 4.77E-02           | 3.02E+00                         |
| Selenium                                     | 7782-49-2  | 1.50E-02                                         | 2.20E-02                                        | s                 | M    | 7.90E+01       | 0.00E+00                            | —                                | 3.42E-01                        | —                                        | —                                        | 0.00E+00             | 0.00E+00           | 2.39E-01                         |
| Selenourea                                   | 630-10-4   | —                                                | —                                               | —                 | O    | 1.19E+02       | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | -2.63E+00                        |
| Silver                                       | 7440-22-4  | 1.70E-01                                         | 1.00E-01                                        | s                 | M    | 1.08E+02       | 0.00E+00                            | —                                | -1.00E+00                       | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                       | CAS         | Br <sub>abg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Br <sub>bg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-------------------------------------------|-------------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Simazine                                  | 122-34-9    | —                                                | —                                               | s                 | O    | 2.02E+02       | 2.48E-07                            | 2.47E+00                         | —                               | 4.90E-02                                 | 6.37E-06                                 | 4.06E+01             | 9.10E-07           | 2.64E+00                         |
| Sodium*                                   | 7440-23-5   | —                                                | —                                               | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Sodium hypochlorite                       | 7681-52-9   | —                                                | —                                               | l                 | I    | 7.44E+01       | —                                   | —                                | -2.08E-01                       | —                                        | —                                        | —                    | —                  | —                                |
| Sodium polyacrylate                       | 9003-04-7   | —                                                | —                                               | l                 | O    | 7.21E+01       | 1.32E-05                            | 5.43E-02                         | —                               | 9.08E-02                                 | 1.06E-05                                 | 1.00E+06             | 3.72E+00           | 4.42E-01                         |
| Strontium                                 | 7440-24-6   | —                                                | —                                               | s                 | M    | 8.76E+01       | 0.00E+00                            | -                                | 3.01E-01                        | 0.00E+00                                 | 0.00E+00                                 | -                    | 0.00E+00           | 0.00E+00                         |
| Strychnine                                | 57-24-9     | —                                                | —                                               | s                 | O    | 3.34E+02       | 6.65E-12                            | 1.90E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 1.43E+02             | 1.67E-10           | 1.85E+00                         |
| Styrene                                   | 100-42-5    | —                                                | —                                               | l                 | O    | 1.04E+02       | 1.14E-01                            | 2.88E+00                         | —                               | 7.10E-02                                 | 8.00E-06                                 | 3.10E+02             | 6.24E+00           | 2.89E+00                         |
| Sulfate*                                  | 14808-79-8  | —                                                | —                                               | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Sulfide*                                  | 18496-25-8  | —                                                | —                                               | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Sulfolane                                 | 126-33-0    | —                                                | —                                               | s                 | O    | 1.20E+02       | 4.82E-07                            | -7.89E-01                        | —                               | 6.98E-01                                 | 9.30E-06                                 | 8.37E+03             | 6.15E-04           | -8.03E-01                        |
| Sulfur*                                   | 7704-34-9   | —                                                | —                                               | —                 | —    | —              | —                                   | —                                | —                               | —                                        | —                                        | —                    | —                  | —                                |
| Sulprofos (Bolstar)                       | 35400-43-2  | —                                                | —                                               | l                 | O    | 3.22E+02       | 3.64E-05                            | 6.41E+00                         | —                               | 3.55E-02                                 | 4.52E-06                                 | 1.90E-02             | 3.99E-08           | 6.40E+00                         |
| Tebuconazole                              | 107534-96-3 | —                                                | —                                               | s                 | O    | 3.08E+02       | 5.94E-09                            | 3.01E+00                         | —                               | 4.25E-02                                 | 4.17E-06                                 | 3.60E+01             | 1.28E-08           | 3.70E+00                         |
| Tebuthiuron                               | 34014-18-1  | —                                                | —                                               | s                 | O    | 2.28E+02       | 4.99E-11                            | 1.50E+00                         | —                               | 5.62E-02                                 | 5.85E-06                                 | 2.50E+03             | 2.03E-05           | 1.79E+00                         |
| Terbufos                                  | 13071-79-9  | —                                                | —                                               | l                 | O    | 2.88E+02       | 6.83E-02                            | 4.14E+00                         | —                               | 4.18E-02                                 | 5.08E-06                                 | 6.84E+00             | 2.96E-02           | 4.20E+00                         |
| Tert-amyl ethyl ether (TAEE)              | 919-94-8    | —                                                | —                                               | l                 | O    | 1.66E+02       | 3.31E-01                            | 2.24E+00                         | —                               | 6.43E-02                                 | 6.38E-06                                 | 7.76E+02             | 4.04E+01           | 2.73E+00                         |
| Tert-amyl-methyl ether (TAME)             | 994-05-8    | —                                                | —                                               | l                 | O    | 1.02E+02       | 1.30E-01                            | 1.62E+00                         | —                               | 6.99E-02                                 | 7.37E-06                                 | 4.29E+03             | 9.97E+01           | 1.95E+00                         |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0     | —                                                | —                                               | s                 | O    | 7.41E+01       | 5.42E-04                            | 6.25E-01                         | —                               | 8.52E-02                                 | 9.11E-06                                 | 2.35E+05             | 3.14E+01           | 6.90E-01                         |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2    | —                                                | —                                               | s                 | O    | 2.16E+02       | 3.02E-02                            | 4.61E+00                         | —                               | 5.72E-02                                 | 7.31E-06                                 | 6.43E+00             | 1.64E-02           | 4.69E+00                         |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2    | —                                                | —                                               | s                 | O    | 2.16E+02       | 2.41E-02                            | 3.80E+00                         | —                               | 5.75E-02                                 | 7.31E-06                                 | 5.18E+00             | 1.06E-02           | 4.70E+00                         |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3     | —                                                | —                                               | s                 | O    | 2.16E+02       | 4.99E-02                            | 3.20E+00                         | —                               | 2.11E-02                                 | 8.80E-06                                 | 3.00E-01             | 5.40E-03           | 4.57E+00                         |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6    | —                                                | —                                               | s                 | O    | 1.68E+02       | 9.98E-02                            | 2.98E+00                         | —                               | 7.10E-02                                 | 7.90E-06                                 | 1.10E+03             | 1.22E+01           | 2.93E+00                         |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5     | —                                                | —                                               | l                 | O    | 1.68E+02       | 1.55E-02                            | 1.89E+00                         | —                               | 7.10E-02                                 | 7.90E-06                                 | 2.97E+03             | 5.17E+00           | 2.19E+00                         |
| Tetrachloroethylene (PCE)                 | 127-18-4    | —                                                | —                                               | l                 | O    | 1.66E+02       | 7.65E-01                            | 2.19E+00                         | —                               | 7.20E-02                                 | 8.20E-06                                 | 2.00E+02             | 1.84E+01           | 2.97E+00                         |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3   | —                                                | —                                               | s                 | OA   | 2.32E+02       | 1.98E-06                            | 2.66E+00                         | —                               | 5.65E-02                                 | 7.32E-06                                 | 2.96E+02             | 4.62E-05           | 4.41E+00                         |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2     | —                                                | —                                               | s                 | OA   | 2.32E+02       | 2.54E-04                            | 2.02E+00                         | —                               | 2.17E-02                                 | 7.10E-06                                 | 1.00E+02             | 5.02E-03           | 4.09E+00                         |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5    | —                                                | —                                               | s                 | O    | 2.32E+02       | 5.82E-03                            | 1.40E+00                         | —                               | 5.60E-02                                 | 7.29E-06                                 | 2.03E+00             | 9.20E-04           | 4.51E+00                         |
| Tetrachlorvinphos (Stirophos)             | 22248-79-9  | —                                                | —                                               | s                 | O    | 3.66E+02       | 7.84E-08                            | 4.76E+00                         | —                               | 3.88E-02                                 | 4.82E-06                                 | 9.74E+01             | 3.82E-07           | 4.80E+00                         |
| Tetradifon                                | 116-29-0    | —                                                | —                                               | s                 | O    | 3.56E+02       | 7.32E-09                            | 3.65E+00                         | —                               | 4.14E-02                                 | 5.80E-06                                 | 7.02E-01             | 2.64E-10           | 4.17E+00                         |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5   | —                                                | —                                               | l                 | O    | 3.22E+02       | 1.75E-04                            | 2.87E+00                         | —                               | 1.50E-02                                 | 5.50E-06                                 | 2.50E+01             | 1.70E-04           | 3.98E+00                         |
| Tetraethyl lead                           | 78-00-2     | —                                                | —                                               | l                 | O    | 3.23E+02       | 3.31E+00                            | 3.69E+00                         | —                               | 1.32E-02                                 | 6.40E-06                                 | 8.00E-01             | 1.50E-01           | 4.88E+00                         |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3    | —                                                | —                                               | l                 | O    | 2.90E+02       | 1.52E-08                            | 2.91E+00                         | —                               | 3.77E-02                                 | 4.76E-06                                 | 1.48E+04             | 1.41E-05           | 3.00E+00                         |
| Tetraethylene glycol                      | 112-60-7    | —                                                | —                                               | l                 | O    | 1.94E+02       | 5.69E-12                            | -5.54E-01                        | —                               | 4.61E-02                                 | 5.81E-06                                 | 6.54E+05             | 2.54E-07           | -5.90E-01                        |
| Tetrahydrofuran                           | 109-99-9    | —                                                | —                                               | l                 | O    | 7.21E+01       | 5.75E-03                            | 5.73E-01                         | —                               | 9.36E-02                                 | 9.88E-06                                 | 1.09E+05             | 1.59E+02           | 6.25E-01                         |
| Tetrahydropyran                           | 142-68-7    | —                                                | —                                               | l                 | O    | 8.61E+01       | 5.53E-03                            | 9.19E-01                         | —                               | 8.14E-02                                 | 8.95E-06                                 | 3.40E+04             | 3.99E+01           | 1.06E+00                         |
| Tetraoxadodecane, 2,5,8,11-               | 112-49-2    | —                                                | —                                               | l                 | O    | 1.78E+02       | 6.73E-08                            | 1.35E+00                         | —                               | 4.88E-02                                 | 5.62E-06                                 | 1.00E+06             | 6.74E-02           | -4.40E-02                        |
| Thallium                                  | 7440-28-0   | 1.00E-03                                         | 4.00E-04                                        | s                 | M    | 2.40E+02       | 0.00E+00                            | —                                | 1.64E+00                        | —                                        | —                                        | 2.90E+03             | 0.00E+00           | —                                |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                     | CAS        | Br <sub>abg</sub><br>(μg/g DW)/<br>(μg/g soil) | Br <sub>bg</sub><br>(μg/g DW)/<br>(μg/g soil) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-----------------------------------------|------------|------------------------------------------------|-----------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Thiofanox                               | 39196-18-4 | —                                              | —                                             | s                 | O    | 2.18E+02       | 3.90E-07                            | 1.77E+00                         | —                               | 2.55E-02                                 | 6.62E-06                                 | 5.20E+03             | 3.10E-04           | 2.16E+00                         |
| Thionazin                               | 297-97-2   | —                                              | —                                             | l                 | O    | 2.48E+02       | 1.62E-05                            | 2.06E+00                         | —                               | 4.67E-02                                 | 5.81E-06                                 | 2.10E+02             | 2.51E-04           | 2.09E+00                         |
| Thiophanate-methyl                      | 23564-05-8 | —                                              | —                                             | s                 | O    | 3.42E+02       | 3.82E-07                            | 9.54E-01                         | —                               | 4.55E-02                                 | 4.68E-06                                 | 3.50E+00             | 7.50E-08           | 1.50E+00                         |
| Thiram                                  | 137-26-8   | —                                              | —                                             | s                 | O    | 2.40E+02       | 3.28E-06                            | 2.83E+00                         | —                               | 2.25E-02                                 | 6.24E-06                                 | 3.00E+01             | 7.50E-06           | 1.70E+00                         |
| Tin                                     | 7440-31-5  | 1.00E-02                                       | 6.00E-03                                      | s                 | M    | 1.19E+02       | 0.00E+00                            | —                                | 2.10E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 1.29E+00                         |
| Titanium                                | 7440-32-6  | 3.70E-03                                       | 3.00E-03                                      | s                 | M    | 4.79E+01       | 0.00E+00                            | —                                | —                               | —                                        | —                                        | 0.00E+00             | —                  | —                                |
| Toluene                                 | 108-88-3   | —                                              | —                                             | l                 | O    | 9.21E+01       | 2.76E-01                            | 2.15E+00                         | —                               | 8.70E-02                                 | 8.60E-06                                 | 5.30E+02             | 2.82E+01           | 2.54E+00                         |
| Toluene diisocyanate, 2,4/2,6-          | 26471-62-5 | —                                              | —                                             | l                 | O    | 1.74E+02       | 6.86E-06                            | 3.35E+00                         | —                               | 6.09E-02                                 | 6.80E-06                                 | 1.11E+05             | 8.00E-02           | 3.74E+00                         |
| Toluenediamine, 2,4-                    | 95-80-7    | —                                              | —                                             | s                 | O    | 1.22E+02       | 7.48E-08                            | 3.11E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 7.47E+03             | 8.36E-05           | 1.56E-01                         |
| Toluenediamine, 2,6-                    | 823-40-5   | —                                              | —                                             | s                 | O    | 1.22E+02       | 5.15E-10                            | 1.60E-01                         | —                               | 6.87E-02                                 | 7.97E-06                                 | 4.80E+04             | 1.98E-05           | 1.56E-01                         |
| Toluidine, o-                           | 95-53-4    | —                                              | —                                             | l                 | OB   | 1.07E+02       | 1.57E-04                            | 2.31E+00                         | —                               | 7.01E-02                                 | 8.43E-06                                 | 1.06E+04             | 2.84E-01           | 1.61E+00                         |
| Toluidine, p-                           | 106-49-0   | —                                              | —                                             | s                 | O    | 1.07E+02       | 3.82E-04                            | 1.40E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 7.20E+03             | 3.30E-01           | 1.62E+00                         |
| Toxaphene                               | 8001-35-2  | —                                              | —                                             | s                 | O    | 4.14E+02       | 1.40E-04                            | 4.98E+00                         | —                               | 1.16E-02                                 | 4.34E-06                                 | 7.40E-01             | 4.19E-06           | 6.79E+00                         |
| TPH, TX1005, C6-C12                     | NA         | —                                              | —                                             | l                 | O    | 1.20E+02       | 4.80E-01                            | 3.20E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 6.50E+01             | 4.79E+00           | 0.00E+00                         |
| TPH, TX1005, >C12-C28                   | NA         | —                                              | —                                             | l                 | O    | 1.50E+02       | 5.30E-02                            | 3.70E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 5.80E+00             | 3.65E-02           | 0.00E+00                         |
| TPH, TX1005, >C12-C35                   | NA         | —                                              | —                                             | l                 | O    | 1.50E+02       | 5.30E-02                            | 3.70E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 5.80E+00             | 3.65E-02           | 0.00E+00                         |
| TPH, TX1005, >C28-C35                   | NA         | —                                              | —                                             | l                 | O    | 1.50E+02       | 5.30E-02                            | 3.70E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 5.80E+00             | 3.65E-02           | 0.00E+00                         |
| TP Silvex, 2,4,5-                       | 93-72-1    | —                                              | —                                             | s                 | O    | 2.70E+02       | 5.45E-07                            | 3.41E+00                         | —                               | 1.94E-02                                 | 5.80E-06                                 | 1.40E+02             | 5.20E-06           | 3.68E+00                         |
| Triademenol                             | 55219-65-3 | —                                              | —                                             | s                 | O    | 2.96E+02       | 5.32E-11                            | 2.37E+00                         | —                               | 4.55E-02                                 | 4.53E-06                                 | 9.50E+01             | 3.08E-10           | 2.90E+00                         |
| Triallate                               | 2303-17-5  | —                                              | —                                             | s                 | O    | 3.05E+02       | 4.53E-04                            | 3.16E+00                         | —                               | 4.58E-02                                 | 4.84E-06                                 | 4.00E+00             | 1.20E-04           | 4.57E+00                         |
| Triaminotrinitrobenzene (TATB)          | 3058-38-6  | —                                              | —                                             | s                 | O    | 2.58E+02       | 5.80E-12                            | 6.88E-01                         | —                               | 5.02E-02                                 | 6.84E-06                                 | 3.20E+01             | 1.34E-11           | 7.00E-01                         |
| Tributyltin oxide                       | 56-35-9    | —                                              | —                                             | l                 | O    | 5.96E+02       | 2.08E-03                            | —                                | —                               | —                                        | —                                        | 1.80E+01             | 6.91E-05           | 5.80E+00                         |
| Trichloro-1,2,2-trifluoroethane, 1,1,2- | 76-13-1    | —                                              | —                                             | l                 | O    | 1.87E+02       | 2.20E+01                            | 3.11E+00                         | —                               | 7.80E-02                                 | 8.20E-06                                 | 2.00E+02             | 3.60E+02           | 3.09E+00                         |
| Trichlorobenzene, 1,2,3-                | 87-61-6    | —                                              | —                                             | l                 | O    | 1.81E+02       | 3.80E-02                            | 3.95E+00                         | —                               | 6.20E-02                                 | 7.71E-06                                 | 1.64E+01             | 6.30E-02           | 4.02E+00                         |
| Trichlorobenzene, 1,2,4-                | 120-82-1   | —                                              | —                                             | l                 | O    | 1.81E+02       | 5.90E-02                            | 3.22E+00                         | —                               | 3.00E-02                                 | 8.23E-06                                 | 4.88E+01             | 3.36E-01           | 3.93E+00                         |
| Trichlorobenzene, 1,3,5-                | 108-70-3   | —                                              | —                                             | s                 | O    | 1.81E+02       | 6.03E-02                            | 3.40E+00                         | —                               | 6.25E-02                                 | 7.66E-06                                 | 1.82E+01             | 1.11E-01           | 4.19E+00                         |
| Trichloroethane, 1,1,1-                 | 71-55-6    | —                                              | —                                             | l                 | O    | 1.33E+02       | 7.15E-01                            | 2.04E+00                         | —                               | 7.80E-02                                 | 8.80E-06                                 | 1.33E+03             | 1.24E+02           | 2.68E+00                         |
| Trichloroethane, 1,1,2-                 | 79-00-5    | —                                              | —                                             | l                 | O    | 1.33E+02       | 3.80E-02                            | 1.70E+00                         | —                               | 7.92E-02                                 | 8.80E-06                                 | 4.42E+03             | 2.52E+01           | 2.01E+00                         |
| Trichloroethylene (TCE)                 | 79-01-6    | —                                              | —                                             | l                 | O    | 1.31E+02       | 4.28E-01                            | 1.97E+00                         | —                               | 7.90E-02                                 | 9.10E-06                                 | 1.10E+03             | 7.20E+01           | 2.47E+00                         |
| Trichlorofluoromethane                  | 75-69-4    | —                                              | —                                             | l                 | O    | 1.37E+02       | 4.03E+00                            | 2.13E+00                         | —                               | 8.70E-02                                 | 9.70E-06                                 | 1.10E+03             | 6.87E+02           | 2.13E+00                         |
| Trichloronate                           | 327-98-0   | —                                              | —                                             | l                 | O    | 3.34E+02       | 4.82E-04                            | 4.62E+00                         | —                               | 4.27E-02                                 | 5.18E-06                                 | 8.13E-01             | 4.48E-05           | 5.74E+00                         |
| Trichlorophenol, 2,3,4-                 | 15950-66-0 | —                                              | —                                             | s                 | OA   | 1.97E+02       | 4.60E-06                            | 2.75E+00                         | —                               | 6.10E-02                                 | 7.73E-06                                 | 1.55E+03             | 6.60E-04           | 3.88E+00                         |
| Trichlorophenol, 2,3,5-                 | 933-78-8   | —                                              | —                                             | s                 | OA   | 1.97E+02       | 3.95E-06                            | 2.37E+00                         | —                               | 6.10E-02                                 | 7.71E-06                                 | 3.74E+03             | 1.37E-03           | 3.75E+00                         |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                                | CAS       | Br <sub>abg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Br <sub>bg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|----------------------------------------------------|-----------|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| Trichlorophenol, 2,3,6-                            | 933-75-5  | —                                                | —                                               | s                 | OA   | 1.97E+02       | 8.78E-03                            | 2.39E+00                         | —                               | 6.08E-02                                 | 7.70E-06                                 | 2.78E+01             | 2.26E-02           | 4.66E+00                         |
| Trichlorophenol, 2,4,5-                            | 95-95-4   | —                                                | —                                               | s                 | OA   | 1.97E+02       | 1.78E-04                            | 2.47E+00                         | —                               | 2.91E-02                                 | 7.03E-06                                 | 1.20E+03             | 1.63E-02           | 3.45E+00                         |
| Trichlorophenol, 2,4,6-                            | 88-06-2   | —                                                | —                                               | s                 | OA   | 1.97E+02       | 3.19E-04                            | 2.12E+00                         | —                               | 3.18E-02                                 | 6.25E-06                                 | 9.82E+02             | 1.18E-02           | 3.45E+00                         |
| Trichlorophenol, 3,4,5-                            | 609-19-8  | —                                                | —                                               | s                 | OA   | 1.97E+02       | 1.15E-06                            | 3.52E+00                         | —                               | 6.00E-02                                 | 7.73E-06                                 | 1.52E+03             | 1.61E-04           | 3.91E+00                         |
| Trichlorophenoxyacetic acid, 2,4,5-                | 93-76-5   | —                                                | —                                               | s                 | O    | 2.55E+02       | 3.62E-07                            | 1.72E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 2.78E+02             | 3.61E-06           | 3.26E+00                         |
| Trichloropropane, 1,1,2-                           | 598-77-6  | —                                                | —                                               | l                 | O    | 1.47E+02       | 1.21E+00                            | 2.24E+00                         | —                               | 3.96E-02                                 | 9.30E-06                                 | 4.44E+01             | 6.64E+00           | 2.43E+00                         |
| Trichloropropane, 1,2,3-                           | 96-18-4   | —                                                | —                                               | l                 | O    | 1.47E+02       | 1.58E-02                            | 2.59E+00                         | —                               | 7.10E-02                                 | 7.90E-06                                 | 1.90E+03             | 3.70E+00           | 2.50E+00                         |
| Triethanolamine                                    | 102-71-6  | —                                                | —                                               | s                 | O    | 1.49E+02       | 3.50E-13                            | -2.93E+00                        | —                               | 5.33E-02                                 | 7.54E-06                                 | -                    | 2.90E-06           | -2.98E+00                        |
| Triethylamine                                      | 121-44-8  | —                                                | —                                               | l                 | O    | 1.01E+02       | 1.99E-02                            | 1.12E+00                         | —                               | 7.54E-02                                 | 7.51E-06                                 | 1.50E+04             | 5.00E+01           | 1.51E+00                         |
| Triethylene glycol                                 | 112-27-6  | —                                                | —                                               | l                 | O    | 1.50E+02       | 8.96E-11                            | -1.16E+00                        | —                               | 5.65E-02                                 | 7.38E-06                                 | 2.11E+06             | 2.31E-05           | -1.18E+00                        |
| Triethylphosphorothioate, O, O, O-                 | 126-68-1  | —                                                | —                                               | l                 | O    | 1.98E+02       | 2.08E-02                            | 2.69E+00                         | —                               | 5.26E-02                                 | 6.24E-06                                 | 8.45E+02             | 7.30E-01           | 2.64E+00                         |
| Trifluralin                                        | 1582-09-8 | —                                                | —                                               | s                 | O    | 3.35E+02       | 2.01E-03                            | 4.14E+00                         | —                               | 1.49E-02                                 | 4.70E-06                                 | 6.00E-01             | 1.10E-04           | 5.31E+00                         |
| Trimethylamine                                     | 75-50-3   | —                                                | —                                               | g                 | OB   | 5.91E+01       | 4.14E-03                            | 1.24E+00                         | —                               | 9.58E-02                                 | 9.13E-06                                 | 5.50E+05             | 9.36E+01           | 2.47E-01                         |
| Trimethylbenzene, 1,2,3-                           | 526-73-8  | —                                                | —                                               | l                 | O    | 1.20E+02       | 1.33E-01                            | 2.77E+00                         | —                               | 6.77E-02                                 | 7.41E-06                                 | 7.52E+01             | 1.49E+00           | 3.55E+00                         |
| Trimethylbenzene, 1,2,4-                           | 95-63-6   | —                                                | —                                               | l                 | O    | 1.20E+02       | 1.84E-01                            | 2.97E+00                         | —                               | 6.22E-02                                 | 7.28E-06                                 | 5.68E+01             | 1.59E+00           | 3.65E+00                         |
| Trimethylbenzene, 1,3,5-                           | 108-67-8  | —                                                | —                                               | l                 | O    | 1.20E+02       | 2.72E-01                            | 3.01E+00                         | —                               | 6.21E-02                                 | 7.23E-06                                 | 5.15E+01             | 2.13E+00           | 3.70E+00                         |
| Trinitrobenzene, 1,3,5-                            | 99-35-4   | —                                                | —                                               | s                 | O    | 2.13E+02       | 2.87E-06                            | 1.15E+00                         | —                               | 8.00E-02                                 | 8.00E-06                                 | 3.53E+02             | 9.90E-05           | 1.45E+00                         |
| Trinitrophenylmethyl nitramine (tetryl; nitramine) | 479-45-8  | —                                                | —                                               | s                 | O    | 2.87E+02       | 8.31E-11                            | 2.37E+00                         | —                               | 5.69E-02                                 | 6.40E-06                                 | 7.50E+01             | 4.00E-10           | 2.04E+00                         |
| Trinitrotoluene, 2,4,6-                            | 118-96-7  | —                                                | —                                               | s                 | O    | 2.27E+02       | 1.90E-05                            | 2.48E+00                         | —                               | 5.41E-02                                 | 6.57E-06                                 | 1.30E+02             | 1.24E-04           | 1.99E+00                         |
| Tungsten (as sodium tungstate dihydride)           | 7440-33-7 | —                                                | —                                               | s                 | M    | 3.30E+02       | 0.00E+00                            | —                                | 3.47E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| Uranium (soluble salts)                            | 7440-61-1 | 5.00E-03                                         | 4.00E-03                                        | s                 | M    | 2.38E+02       | 0.00E+00                            | —                                | 3.47E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| Valeric acid (pentanoic acid)                      | 109-52-4  | —                                                | —                                               | l                 | O    | 1.02E+02       | 1.16E-05                            | -1.80E+00                        | —                               | 6.92E-02                                 | 8.37E-06                                 | 2.20E+00             | 7.39E-02           | 1.53E+00                         |
| Vanadium                                           | 7440-62-2 | 3.60E-03                                         | 3.00E-03                                        | s                 | M    | 5.09E+01       | 0.00E+00                            | —                                | 3.00E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | 0.00E+00                         |
| Vernam                                             | 1929-77-7 | —                                                | —                                               | l                 | O    | 2.03E+02       | 7.36E-04                            | 3.44E+00                         | —                               | 5.10E-02                                 | 5.39E-06                                 | 9.85E+01             | 1.04E-02           | 3.51E+00                         |
| Vinyl acetate                                      | 108-05-4  | —                                                | —                                               | l                 | O    | 8.61E+01       | 2.29E-02                            | 7.20E-01                         | —                               | 8.50E-02                                 | 9.20E-06                                 | 2.00E+04             | 1.09E+02           | 7.28E-01                         |
| Vinyl chloride                                     | 75-01-4   | —                                                | —                                               | g                 | O    | 6.25E+01       | 3.49E+00                            | 1.04E+00                         | —                               | 1.06E-01                                 | 1.23E-05                                 | 2.76E+03             | 2.80E+03           | 1.62E+00                         |
| Vinylcyclohexane                                   | 695-12-5  | —                                                | —                                               | l                 | O    | 1.10E+02       | 3.57E+00                            | 3.42E+00                         | —                               | 6.49E-02                                 | 7.33E-06                                 | 1.08E+01             | 6.40E+00           | 4.22E+00                         |
| Warfarin                                           | 81-81-2   | —                                                | —                                               | s                 | O    | 3.08E+02       | 1.15E-07                            | 2.96E+00                         | —                               | 1.63E-02                                 | 4.40E-06                                 | 1.70E+01             | 1.16E-07           | 3.20E+00                         |
| Xylene, m-                                         | 108-38-3  | —                                                | —                                               | l                 | O    | 1.06E+02       | 3.05E-01                            | 2.29E+00                         | —                               | 7.00E-02                                 | 7.80E-06                                 | 1.60E+02             | 8.00E+00           | 3.20E+00                         |
| Xylene, o-                                         | 95-47-6   | —                                                | —                                               | l                 | O    | 1.06E+02       | 7.36E-04                            | 2.11E+00                         | —                               | 8.70E-02                                 | 1.00E-05                                 | 1.78E+02             | 6.75E+00           | 3.13E+00                         |
| Xylene, p-                                         | 106-42-3  | —                                                | —                                               | l                 | O    | 1.06E+02       | 3.18E-01                            | 2.49E+00                         | —                               | 7.69E-02                                 | 8.44E-06                                 | 1.85E+02             | 8.76E+00           | 3.17E+00                         |
| Xylenes                                            | 1330-20-7 | —                                                | —                                               | l                 | O    | 1.06E+02       | 2.93E-01                            | 2.38E+00                         | —                               | 7.40E-02                                 | 8.50E-06                                 | 1.98E+02             | 8.06E+00           | 3.09E+00                         |
| Zinc                                               | 7440-66-6 | 9.00E-02                                         | 4.40E-02                                        | s                 | M    | 6.54E+01       | 0.00E+00                            | —                                | 1.20E+00                        | 0.00E+00                                 | 0.00E+00                                 | 0.00E+00             | 0.00E+00           | -4.71E-01                        |

## Chemical/Physical Properties

Last Revised: March 1, 2022

| Chemical of Concern                                                   | CAS | Br <sub>abg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Br <sub>bg</sub><br>((µg/g DW)/<br>(µg/g soil)) | Physical<br>State | Type | MW<br>(g/mole) | H <sub>unitless</sub><br>(unitless) | LogK <sub>oc</sub><br>(unitless) | LogK <sub>d</sub><br>(unitless) | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>wat</sub><br>(cm <sup>2</sup> /s) | Solubility<br>(mg/l) | Vapor_P<br>(mm Hg) | logK <sub>ow</sub><br>(unitless) |
|-----------------------------------------------------------------------|-----|--------------------------------------------------|-------------------------------------------------|-------------------|------|----------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------------|------------------------------------------|----------------------|--------------------|----------------------------------|
| 6 C aliphatics (TPH) (>53% n-hexane content)                          | NA  | —                                                | —                                               | I                 | O    | 8.10E+01       | 3.30E+01                            | 2.90E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 3.60E+01             | 2.66E+02           | —                                |
| 6 C aliphatics (TPH) (<53% n-hexane content)                          | NA  | —                                                | —                                               | I                 | O    | 8.10E+01       | 3.30E+01                            | 2.90E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 3.60E+01             | 2.66E+02           | —                                |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)                       | NA  | —                                                | —                                               | I                 | O    | 1.00E+02       | 5.00E+01                            | 3.60E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 5.40E+00             | 4.79E+01           | —                                |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)                       | NA  | —                                                | —                                               | I                 | O    | 1.00E+02       | 5.00E+01                            | 3.60E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 5.40E+00             | 4.79E+01           | —                                |
| >8-10 C aliphatics (TPH)                                              | NA  | —                                                | —                                               | I                 | O    | 1.30E+02       | 8.00E+01                            | 4.50E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 4.30E-01             | 4.79E+00           | —                                |
| >10-12 C aliphatics (TPH)                                             | NA  | —                                                | —                                               | I                 | O    | 1.60E+02       | 1.20E+02                            | 5.40E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 3.40E-02             | 4.79E-01           | —                                |
| >12-16 C aliphatics (TPH)                                             | NA  | —                                                | —                                               | I                 | O    | 2.00E+02       | 5.20E+02                            | 6.70E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 7.60E-04             | 3.65E-02           | —                                |
| >16-35 C aliphatics (TPH)                                             | NA  | —                                                | —                                               | I                 | O    | 2.70E+02       | 4.90E+03                            | 8.80E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 2.50E-06             | 8.40E-04           | —                                |
| >16-35 C aliphatics (TPH) (for transformer mineral oil releases only) | NA  | —                                                | —                                               | I                 | O    | 2.70E+02       | 4.90E+03                            | 8.80E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 2.50E-06             | 8.40E-04           | —                                |
| >7-8 C aromatics (TPH)                                                | NA  | —                                                | —                                               | I                 | O    | 9.20E+01       | 2.76E-01                            | 2.15E+00                         | —                               | 8.70E-02                                 | 8.60E-06                                 | 5.30E+02             | 2.82E+01           | —                                |
| >8-10 C aromatics (TPH)                                               | NA  | —                                                | —                                               | I                 | O    | 1.20E+02       | 4.80E-01                            | 3.20E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 6.50E+01             | 4.79E+00           | —                                |
| >10-12 C aromatics (TPH)                                              | NA  | —                                                | —                                               | I                 | O    | 1.30E+02       | 1.40E-01                            | 3.40E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 2.50E+01             | 4.79E-01           | —                                |
| >12-16 C aromatics (TPH)                                              | NA  | —                                                | —                                               | I                 | O    | 1.50E+02       | 5.30E-02                            | 3.70E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 5.80E+00             | 3.65E-02           | —                                |
| >16-21 C aromatics (TPH)                                              | NA  | —                                                | —                                               | I                 | O    | 1.90E+02       | 1.30E-02                            | 4.20E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 6.50E-01             | 8.40E-04           | —                                |
| >21-35 C aromatics (TPH)                                              | NA  | —                                                | —                                               | S                 | O    | 2.40E+02       | 6.70E-04                            | 5.10E+00                         | —                               | 1.00E-01                                 | 1.00E-05                                 | 6.60E-03             | 3.30E-07           | —                                |

### Footnotes

\* These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <http://www.tceq.texas.gov/remediation/trrp/trrppcls.html>.

**s** - compound solid at @ 20 oC

**I** - compound liquid at @ 20 oC

**g** - compound gaseous at @ 20 oC

**H'** - Dimensionless Henry's Law Constant H' = H x 41.57 @ 20 oC (cm<sup>3</sup>-H<sub>2</sub>O/cm<sup>3</sup>-air)

**H** - Henry's Law Constant (atm-m<sup>3</sup>/mole)

**MW** - Molecular Weight (g/mole)

**K<sub>oc</sub>** - Soil organic carbon-water partition coefficient (cm<sup>3</sup>-H<sub>2</sub>O/g-Carbon)

**K<sub>d</sub>** - soil-water partition coefficient (cm<sup>3</sup>-H<sub>2</sub>O/g-Soil)

**D<sub>air</sub>** - Diffusion coefficient in air (cm<sup>2</sup>/s)

**D<sub>wat</sub>** - Diffusion coefficient in water (cm<sup>2</sup>/s)

**K<sub>ow</sub>** - Octanol-water partition coefficient (cm<sup>3</sup>-H<sub>2</sub>O/cm<sup>3</sup>-Octanol)

**Br<sub>abg</sub>** - Soil-to-above ground plant biotransfer factor (g soil/g plant tissue dry weight)

**Br<sub>bg</sub>** - Soil-to-below ground plant biotransfer factor (g soil/g plant tissue dry weight)

**Type** - O: Organic, I: Inorganic, M: Metal, OA: Organic Acids

**CE** - Not found, Can not estimate

**NA/reacts** - Not applicable because reacts with water

This table shows the chemical and physical properties used to calculate protective concentration levels.

end of worksheet

## Koc Values for Ionizing Organic COCs as a Function of pH

Last Revised: May 24, 2011

| pH  | Adipic acid<br>124-04-9 | Ametryn<br>834-12-8 | Aminobiphenyl, 4-<br>92-67-1 | Benz[c]acridine<br>225-51-4 | Benzoic<br>Acid*<br>65-85-0 | Butanoic acid<br>107-92-6 | Chlorophenol, 2-*<br>95-57-8 | Chlorophenol, 3-<br>108-43-0 |
|-----|-------------------------|---------------------|------------------------------|-----------------------------|-----------------------------|---------------------------|------------------------------|------------------------------|
| 4.9 | 1.69E-01                | 8.57E+02            | 5.31E+03                     | 1.48E+05                    | 5.54E+00                    | 4.19E+00                  | 3.98E+02                     | 1.17E+02                     |
| 5.0 | 1.22E-01                | 8.37E+02            | 4.68E+03                     | 1.31E+05                    | 4.64E+00                    | 3.61E+00                  | 3.98E+02                     | 1.17E+02                     |
| 5.1 | 9.21E-02                | 8.24E+02            | 4.21E+03                     | 1.17E+05                    | 3.88E+00                    | 3.11E+00                  | 3.98E+02                     | 1.17E+02                     |
| 5.2 | 6.27E-02                | 8.11E+02            | 3.73E+03                     | 1.03E+05                    | 3.25E+00                    | 2.60E+00                  | 3.98E+02                     | 1.17E+02                     |
| 5.3 | 4.64E-02                | 8.03E+02            | 3.40E+03                     | 9.35E+04                    | 2.72E+00                    | 2.20E+00                  | 3.98E+02                     | 1.17E+02                     |
| 5.4 | 3.01E-02                | 7.95E+02            | 3.06E+03                     | 8.36E+04                    | 2.29E+00                    | 1.81E+00                  | 3.98E+02                     | 1.17E+02                     |
| 5.5 | 2.18E-02                | 7.90E+02            | 2.83E+03                     | 7.67E+04                    | 1.94E+00                    | 1.51E+00                  | 3.97E+02                     | 1.17E+02                     |
| 5.6 | 1.36E-02                | 7.85E+02            | 2.61E+03                     | 6.98E+04                    | 1.65E+00                    | 1.22E+00                  | 3.97E+02                     | 1.17E+02                     |
| 5.7 | 9.77E-03                | 7.82E+02            | 2.45E+03                     | 6.51E+04                    | 1.42E+00                    | 1.01E+00                  | 3.97E+02                     | 1.17E+02                     |
| 5.8 | 5.91E-03                | 7.78E+02            | 2.30E+03                     | 6.05E+04                    | 1.24E+00                    | 8.01E-01                  | 3.97E+02                     | 1.17E+02                     |
| 5.9 | 4.20E-03                | 7.76E+02            | 2.20E+03                     | 5.74E+04                    | 1.09E+00                    | 6.61E-01                  | 3.97E+02                     | 1.17E+02                     |
| 6.0 | 2.49E-03                | 7.74E+02            | 2.10E+03                     | 5.44E+04                    | 9.69E-01                    | 5.20E-01                  | 3.96E+02                     | 1.17E+02                     |
| 6.1 | 1.76E-03                | 7.73E+02            | 2.04E+03                     | 5.24E+04                    | 8.75E-01                    | 4.27E-01                  | 3.96E+02                     | 1.17E+02                     |
| 6.2 | 1.03E-03                | 7.72E+02            | 1.97E+03                     | 5.04E+04                    | 7.99E-01                    | 3.34E-01                  | 3.96E+02                     | 1.17E+02                     |
| 6.3 | 7.25E-04                | 7.71E+02            | 1.93E+03                     | 4.92E+04                    | 7.36E-01                    | 2.74E-01                  | 3.95E+02                     | 1.17E+02                     |
| 6.4 | 4.20E-04                | 7.70E+02            | 1.89E+03                     | 4.79E+04                    | 6.89E-01                    | 2.13E-01                  | 3.94E+02                     | 1.17E+02                     |
| 6.5 | 2.95E-04                | 7.70E+02            | 1.87E+03                     | 4.71E+04                    | 6.51E-01                    | 1.74E-01                  | 3.93E+02                     | 1.17E+02                     |
| 6.6 | 1.70E-04                | 7.69E+02            | 1.84E+03                     | 4.63E+04                    | 6.20E-01                    | 1.36E-01                  | 3.92E+02                     | 1.17E+02                     |
| 6.7 | 1.19E-04                | 7.69E+02            | 1.82E+03                     | 4.58E+04                    | 5.95E-01                    | 1.11E-01                  | 3.90E+02                     | 1.17E+02                     |
| 6.8 | 6.83E-05                | 7.69E+02            | 1.81E+03                     | 4.52E+04                    | 5.76E-01                    | 8.59E-02                  | 3.88E+02                     | 1.17E+02                     |
| 6.9 | 4.78E-05                | 7.68E+02            | 1.80E+03                     | 4.49E+04                    | 5.60E-01                    | 7.02E-02                  | 3.86E+02                     | 1.17E+02                     |
| 7.0 | 2.74E-05                | 7.68E+02            | 1.79E+03                     | 4.46E+04                    | 5.47E-01                    | 5.44E-02                  | 3.83E+02                     | 1.17E+02                     |
| 7.1 | 1.91E-05                | 7.68E+02            | 1.78E+03                     | 4.44E+04                    | 5.38E-01                    | 4.44E-02                  | 3.79E+02                     | 1.17E+02                     |
| 7.2 | 1.09E-05                | 7.68E+02            | 1.77E+03                     | 4.42E+04                    | 5.32E-01                    | 3.44E-02                  | 3.75E+02                     | 1.16E+02                     |
| 7.3 | 7.65E-06                | 7.68E+02            | 1.77E+03                     | 4.41E+04                    | 5.25E-01                    | 2.81E-02                  | 3.69E+02                     | 1.16E+02                     |
| 7.4 | 4.36E-06                | 7.68E+02            | 1.77E+03                     | 4.39E+04                    | 5.19E-01                    | 2.17E-02                  | 3.62E+02                     | 1.16E+02                     |
| 7.5 | 3.05E-06                | 7.68E+02            | 1.76E+03                     | 4.38E+04                    | 5.16E-01                    | 1.77E-02                  | 3.54E+02                     | 1.15E+02                     |
| 7.6 | 1.74E-06                | 7.68E+02            | 1.76E+03                     | 4.38E+04                    | 5.13E-01                    | 1.37E-02                  | 3.44E+02                     | 1.15E+02                     |
| 7.7 | 1.22E-06                | 7.68E+02            | 1.76E+03                     | 4.37E+04                    | 5.09E-01                    | 1.12E-02                  | 3.33E+02                     | 1.14E+02                     |
| 7.8 | 6.93E-07                | 7.68E+02            | 1.76E+03                     | 4.37E+04                    | 5.06E-01                    | 8.66E-03                  | 3.19E+02                     | 1.13E+02                     |
| 7.9 | 4.85E-07                | 7.68E+02            | 1.76E+03                     | 4.36E+04                    | 5.06E-01                    | 7.06E-03                  | 3.04E+02                     | 1.12E+02                     |
| 8.0 | 2.76E-07                | 7.68E+02            | 1.75E+03                     | 4.36E+04                    | 5.06E-01                    | 5.46E-03                  | 2.86E+02                     | 1.11E+02                     |

## Koc Values for Ionizing Organic COCs as a Function of pH

Last Revised: May 24, 2011

| pH  | Chlorophenol, 4-<br>106-48-9 | Cymoxanil<br>57966-95-7 | Dibenz(a,j)acridine<br>224-42-0 | Dichlorophenol, 2,3-<br>576-24-9 | Dichlorophenol, 2,4-*<br>120-83-2 | Dichlorophenol, 2,5-<br>583-78-8 | Dichlorophenol, 2,6-<br>87-65-0 |
|-----|------------------------------|-------------------------|---------------------------------|----------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| 4.9 | 1.26E+02                     | 1.56E-01                | 7.18E+06                        | 5.87E+02                         | 1.59E+02                          | 5.36E+02                         | 6.58E+02                        |
| 5.0 | 1.26E+02                     | 1.22E-01                | 6.32E+06                        | 5.87E+02                         | 1.59E+02                          | 5.35E+02                         | 6.55E+02                        |
| 5.1 | 1.26E+02                     | 1.00E-01                | 5.68E+06                        | 5.86E+02                         | 1.59E+02                          | 5.35E+02                         | 6.49E+02                        |
| 5.2 | 1.26E+02                     | 7.83E-02                | 5.03E+06                        | 5.86E+02                         | 1.59E+02                          | 5.34E+02                         | 6.44E+02                        |
| 5.3 | 1.26E+02                     | 6.41E-02                | 4.56E+06                        | 5.85E+02                         | 1.59E+02                          | 5.33E+02                         | 6.36E+02                        |
| 5.4 | 1.26E+02                     | 4.99E-02                | 4.10E+06                        | 5.84E+02                         | 1.58E+02                          | 5.33E+02                         | 6.28E+02                        |
| 5.5 | 1.26E+02                     | 4.08E-02                | 3.78E+06                        | 5.83E+02                         | 1.58E+02                          | 5.31E+02                         | 6.16E+02                        |
| 5.6 | 1.26E+02                     | 3.17E-02                | 3.46E+06                        | 5.81E+02                         | 1.58E+02                          | 5.30E+02                         | 6.03E+02                        |
| 5.7 | 1.26E+02                     | 2.59E-02                | 3.24E+06                        | 5.79E+02                         | 1.58E+02                          | 5.28E+02                         | 5.86E+02                        |
| 5.8 | 1.26E+02                     | 2.01E-02                | 3.03E+06                        | 5.77E+02                         | 1.58E+02                          | 5.26E+02                         | 5.69E+02                        |
| 5.9 | 1.26E+02                     | 1.64E-02                | 2.89E+06                        | 5.73E+02                         | 1.57E+02                          | 5.23E+02                         | 5.45E+02                        |
| 6.0 | 1.26E+02                     | 1.27E-02                | 2.75E+06                        | 5.70E+02                         | 1.57E+02                          | 5.20E+02                         | 5.21E+02                        |
| 6.1 | 1.26E+02                     | 1.03E-02                | 2.66E+06                        | 5.65E+02                         | 1.57E+02                          | 5.15E+02                         | 4.90E+02                        |
| 6.2 | 1.26E+02                     | 8.02E-03                | 2.57E+06                        | 5.59E+02                         | 1.56E+02                          | 5.10E+02                         | 4.60E+02                        |
| 6.3 | 1.26E+02                     | 6.54E-03                | 2.51E+06                        | 5.52E+02                         | 1.55E+02                          | 5.03E+02                         | 4.24E+02                        |
| 6.4 | 1.26E+02                     | 5.06E-03                | 2.46E+06                        | 5.44E+02                         | 1.54E+02                          | 4.95E+02                         | 3.88E+02                        |
| 6.5 | 1.26E+02                     | 4.13E-03                | 2.42E+06                        | 5.32E+02                         | 1.53E+02                          | 4.85E+02                         | 3.49E+02                        |
| 6.6 | 1.26E+02                     | 3.20E-03                | 2.38E+06                        | 5.20E+02                         | 1.52E+02                          | 4.74E+02                         | 3.11E+02                        |
| 6.7 | 1.26E+02                     | 2.61E-03                | 2.36E+06                        | 5.04E+02                         | 1.50E+02                          | 4.58E+02                         | 2.73E+02                        |
| 6.8 | 1.26E+02                     | 2.02E-03                | 2.34E+06                        | 4.87E+02                         | 1.47E+02                          | 4.43E+02                         | 2.36E+02                        |
| 6.9 | 1.26E+02                     | 1.65E-03                | 2.32E+06                        | 4.65E+02                         | 1.45E+02                          | 4.23E+02                         | 2.04E+02                        |
| 7.0 | 1.26E+02                     | 1.27E-03                | 2.31E+06                        | 4.42E+02                         | 1.41E+02                          | 4.02E+02                         | 1.71E+02                        |
| 7.1 | 1.25E+02                     | 1.04E-03                | 2.30E+06                        | 4.14E+02                         | 1.38E+02                          | 3.76E+02                         | 1.45E+02                        |
| 7.2 | 1.25E+02                     | 8.03E-04                | 2.29E+06                        | 3.86E+02                         | 1.33E+02                          | 3.51E+02                         | 1.19E+02                        |
| 7.3 | 1.25E+02                     | 6.55E-04                | 2.28E+06                        | 3.54E+02                         | 1.28E+02                          | 3.21E+02                         | 9.97E+01                        |
| 7.4 | 1.25E+02                     | 5.07E-04                | 2.28E+06                        | 3.22E+02                         | 1.21E+02                          | 2.91E+02                         | 8.04E+01                        |
| 7.5 | 1.25E+02                     | 4.13E-04                | 2.27E+06                        | 2.88E+02                         | 1.14E+02                          | 2.61E+02                         | 6.67E+01                        |
| 7.6 | 1.24E+02                     | 3.20E-04                | 2.27E+06                        | 2.54E+02                         | 1.07E+02                          | 2.30E+02                         | 5.31E+01                        |
| 7.7 | 1.24E+02                     | 2.61E-04                | 2.27E+06                        | 2.22E+02                         | 9.84E+01                          | 2.01E+02                         | 4.38E+01                        |
| 7.8 | 1.23E+02                     | 2.02E-04                | 2.26E+06                        | 1.91E+02                         | 8.97E+01                          | 1.72E+02                         | 3.45E+01                        |
| 7.9 | 1.23E+02                     | 1.65E-04                | 2.26E+06                        | 1.64E+02                         | 8.07E+01                          | 1.48E+02                         | 2.83E+01                        |
| 8.0 | 1.22E+02                     | 1.27E-04                | 2.26E+06                        | 1.37E+02                         | 7.17E+01                          | 1.23E+02                         | 2.22E+01                        |

# Koc Values for Ionizing Organic COCs as a Function of pH

Last Revised: May 24, 2011

| pH  | Dichlorophenol, 3,4-<br>95-77-2 | Dichlorophenol, 3,5-<br>591-35-5 | DB, 2,4-<br>(4-(2,4-Dichlorophenoxy)<br>butyric acid)<br>94-82-6 | Dichloroprop<br>(2-(2,4-dichlorophenoxy)<br>propanoic acid)<br>120-36-5 | Dimethylamino-<br>azobenzene, 4-<br>60-11-7 | Dimethylhydrazine, 1,1-<br>57-14-7 |
|-----|---------------------------------|----------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------|------------------------------------|
| 4.9 | 7.77E+02                        | 5.59E+02                         | 1.72E+03                                                         | 3.61E+01                                                                | 1.13E+05                                    | 6.44E-01                           |
| 5.0 | 7.77E+02                        | 5.59E+02                         | 1.44E+03                                                         | 2.81E+01                                                                | 1.10E+05                                    | 6.44E-01                           |
| 5.1 | 7.77E+02                        | 5.59E+02                         | 1.22E+03                                                         | 2.30E+01                                                                | 1.09E+05                                    | 6.43E-01                           |
| 5.2 | 7.77E+02                        | 5.59E+02                         | 9.93E+02                                                         | 1.78E+01                                                                | 1.07E+05                                    | 6.43E-01                           |
| 5.3 | 7.76E+02                        | 5.59E+02                         | 8.30E+02                                                         | 1.46E+01                                                                | 1.06E+05                                    | 6.42E-01                           |
| 5.4 | 7.76E+02                        | 5.59E+02                         | 6.66E+02                                                         | 1.13E+01                                                                | 1.04E+05                                    | 6.41E-01                           |
| 5.5 | 7.76E+02                        | 5.59E+02                         | 5.52E+02                                                         | 9.22E+00                                                                | 1.04E+05                                    | 6.40E-01                           |
| 5.6 | 7.76E+02                        | 5.59E+02                         | 4.38E+02                                                         | 7.15E+00                                                                | 1.03E+05                                    | 6.38E-01                           |
| 5.7 | 7.76E+02                        | 5.58E+02                         | 3.61E+02                                                         | 5.83E+00                                                                | 1.03E+05                                    | 6.36E-01                           |
| 5.8 | 7.76E+02                        | 5.58E+02                         | 2.84E+02                                                         | 4.52E+00                                                                | 1.02E+05                                    | 6.34E-01                           |
| 5.9 | 7.75E+02                        | 5.58E+02                         | 2.33E+02                                                         | 3.68E+00                                                                | 1.02E+05                                    | 6.31E-01                           |
| 6.0 | 7.75E+02                        | 5.57E+02                         | 1.82E+02                                                         | 2.85E+00                                                                | 1.02E+05                                    | 6.28E-01                           |
| 6.1 | 7.75E+02                        | 5.57E+02                         | 1.49E+02                                                         | 2.33E+00                                                                | 1.01E+05                                    | 6.22E-01                           |
| 6.2 | 7.74E+02                        | 5.56E+02                         | 1.16E+02                                                         | 1.80E+00                                                                | 1.01E+05                                    | 6.17E-01                           |
| 6.3 | 7.73E+02                        | 5.55E+02                         | 9.51E+01                                                         | 1.47E+00                                                                | 1.01E+05                                    | 6.10E-01                           |
| 6.4 | 7.73E+02                        | 5.54E+02                         | 7.39E+01                                                         | 1.14E+00                                                                | 1.01E+05                                    | 6.02E-01                           |
| 6.5 | 7.71E+02                        | 5.53E+02                         | 6.03E+01                                                         | 9.27E-01                                                                | 1.01E+05                                    | 5.91E-01                           |
| 6.6 | 7.70E+02                        | 5.51E+02                         | 4.68E+01                                                         | 7.17E-01                                                                | 1.01E+05                                    | 5.80E-01                           |
| 6.7 | 7.68E+02                        | 5.49E+02                         | 3.82E+01                                                         | 5.85E-01                                                                | 1.01E+05                                    | 5.63E-01                           |
| 6.8 | 7.67E+02                        | 5.46E+02                         | 2.96E+01                                                         | 4.53E-01                                                                | 1.01E+05                                    | 5.47E-01                           |
| 6.9 | 7.64E+02                        | 5.42E+02                         | 2.42E+01                                                         | 3.69E-01                                                                | 1.01E+05                                    | 5.26E-01                           |
| 7.0 | 7.61E+02                        | 5.39E+02                         | 1.87E+01                                                         | 2.86E-01                                                                | 1.01E+05                                    | 5.04E-01                           |
| 7.1 | 7.56E+02                        | 5.33E+02                         | 1.53E+01                                                         | 2.33E-01                                                                | 1.01E+05                                    | 4.77E-01                           |
| 7.2 | 7.51E+02                        | 5.27E+02                         | 1.18E+01                                                         | 1.80E-01                                                                | 1.01E+05                                    | 4.49E-01                           |
| 7.3 | 7.44E+02                        | 5.19E+02                         | 9.65E+00                                                         | 1.47E-01                                                                | 1.01E+05                                    | 4.17E-01                           |
| 7.4 | 7.37E+02                        | 5.10E+02                         | 7.47E+00                                                         | 1.14E-01                                                                | 1.01E+05                                    | 3.86E-01                           |
| 7.5 | 7.27E+02                        | 4.98E+02                         | 6.09E+00                                                         | 9.27E-02                                                                | 1.01E+05                                    | 3.52E-01                           |
| 7.6 | 7.16E+02                        | 4.85E+02                         | 4.71E+00                                                         | 7.17E-02                                                                | 1.01E+05                                    | 3.19E-01                           |
| 7.7 | 7.01E+02                        | 4.68E+02                         | 3.84E+00                                                         | 5.85E-02                                                                | 1.01E+05                                    | 2.88E-01                           |
| 7.8 | 6.85E+02                        | 4.50E+02                         | 2.98E+00                                                         | 4.53E-02                                                                | 1.01E+05                                    | 2.56E-01                           |
| 7.9 | 6.63E+02                        | 4.27E+02                         | 2.43E+00                                                         | 3.69E-02                                                                | 1.01E+05                                    | 2.29E-01                           |
| 8.0 | 6.41E+02                        | 4.04E+02                         | 1.88E+00                                                         | 2.86E-02                                                                | 1.01E+05                                    | 2.02E-01                           |

# Koc Values for Ionizing Organic COCs as a Function of pH

Last Revised: May 24, 2011

| pH  | Dinitro-2-methylphenol, 4,6-<br>(dinitro-o-cresol, 4, 6-)<br>534-52-1 | Dinitrophenol, 2,4-*<br>51-28-5 | Dinitrophenol, 2,5-<br>329-71-5 | Dodecylphenol, 4-<br>104-43-8 | Endothall<br>145-73-3 | Ethanol, 2-(methlamino)-<br>109-83-1 | Ethyleneimine<br>151-56-4 | Glyphosate <sup>1</sup><br>1071-83-6 |
|-----|-----------------------------------------------------------------------|---------------------------------|---------------------------------|-------------------------------|-----------------------|--------------------------------------|---------------------------|--------------------------------------|
| 4.9 | 2.91E+01                                                              | 2.94E-02                        | 3.15E+02                        | 2.51E+08                      | 3.70E+00              | 3.11E-06                             | 2.49E+00                  | Under review.                        |
| 5.0 | 2.43E+01                                                              | 2.55E-02                        | 2.97E+02                        | 2.51E+08                      | 2.49E+00              | 3.82E-06                             | 2.49E+00                  | -                                    |
| 5.1 | 2.05E+01                                                              | 2.23E-02                        | 2.75E+02                        | 2.51E+08                      | 1.84E+00              | 4.93E-06                             | 2.49E+00                  | -                                    |
| 5.2 | 1.67E+01                                                              | 1.98E-02                        | 2.54E+02                        | 2.51E+08                      | 1.19E+00              | 6.05E-06                             | 2.49E+00                  | -                                    |
| 5.3 | 1.40E+01                                                              | 1.78E-02                        | 2.30E+02                        | 2.51E+08                      | 8.60E-01              | 7.82E-06                             | 2.49E+00                  | -                                    |
| 5.4 | 1.12E+01                                                              | 1.62E-02                        | 2.06E+02                        | 2.51E+08                      | 5.35E-01              | 9.58E-06                             | 2.49E+00                  | -                                    |
| 5.5 | 9.27E+00                                                              | 1.50E-02                        | 1.82E+02                        | 2.51E+08                      | 3.83E-01              | 1.24E-05                             | 2.49E+00                  | -                                    |
| 5.6 | 7.35E+00                                                              | 1.40E-02                        | 1.58E+02                        | 2.51E+08                      | 2.32E-01              | 1.52E-05                             | 2.49E+00                  | -                                    |
| 5.7 | 6.05E+00                                                              | 1.32E-02                        | 1.37E+02                        | 2.51E+08                      | 1.65E-01              | 1.96E-05                             | 2.49E+00                  | -                                    |
| 5.8 | 4.75E+00                                                              | 1.25E-02                        | 1.16E+02                        | 2.51E+08                      | 9.76E-02              | 2.41E-05                             | 2.49E+00                  | -                                    |
| 5.9 | 3.90E+00                                                              | 1.20E-02                        | 9.86E+01                        | 2.51E+08                      | 6.89E-02              | 3.11E-05                             | 2.48E+00                  | -                                    |
| 6.0 | 3.05E+00                                                              | 1.16E-02                        | 8.14E+01                        | 2.51E+08                      | 4.03E-02              | 3.82E-05                             | 2.48E+00                  | -                                    |
| 6.1 | 2.50E+00                                                              | 1.13E-02                        | 6.83E+01                        | 2.51E+08                      | 2.84E-02              | 4.93E-05                             | 2.48E+00                  | -                                    |
| 6.2 | 1.94E+00                                                              | 1.10E-02                        | 5.53E+01                        | 2.51E+08                      | 1.64E-02              | 6.05E-05                             | 2.48E+00                  | -                                    |
| 6.3 | 1.59E+00                                                              | 1.08E-02                        | 4.60E+01                        | 2.51E+08                      | 1.15E-02              | 7.82E-05                             | 2.47E+00                  | -                                    |
| 6.4 | 1.24E+00                                                              | 1.06E-02                        | 3.67E+01                        | 2.51E+08                      | 6.64E-03              | 9.58E-05                             | 2.47E+00                  | -                                    |
| 6.5 | 1.01E+00                                                              | 1.05E-02                        | 3.03E+01                        | 2.51E+08                      | 4.65E-03              | 1.24E-04                             | 2.46E+00                  | -                                    |
| 6.6 | 7.83E-01                                                              | 1.04E-02                        | 2.39E+01                        | 2.51E+08                      | 2.67E-03              | 1.52E-04                             | 2.46E+00                  | -                                    |
| 6.7 | 6.39E-01                                                              | 1.03E-02                        | 1.96E+01                        | 2.51E+08                      | 1.87E-03              | 1.96E-04                             | 2.45E+00                  | -                                    |
| 6.8 | 4.95E-01                                                              | 1.02E-02                        | 1.54E+01                        | 2.51E+08                      | 1.07E-03              | 2.41E-04                             | 2.44E+00                  | -                                    |
| 6.9 | 4.04E-01                                                              | 1.02E-02                        | 1.26E+01                        | 2.51E+08                      | 7.48E-04              | 3.11E-04                             | 2.42E+00                  | -                                    |
| 7.0 | 3.13E-01                                                              | 1.02E-02                        | 9.85E+00                        | 2.51E+08                      | 4.27E-04              | 3.81E-04                             | 2.41E+00                  | -                                    |
| 7.1 | 2.55E-01                                                              | 1.02E-02                        | 8.06E+00                        | 2.51E+08                      | 2.99E-04              | 4.93E-04                             | 2.38E+00                  | -                                    |
| 7.2 | 1.98E-01                                                              | 1.01E-02                        | 6.27E+00                        | 2.51E+08                      | 1.71E-04              | 6.04E-04                             | 2.36E+00                  | -                                    |
| 7.3 | 1.61E-01                                                              | 1.01E-02                        | 5.12E+00                        | 2.51E+08                      | 1.19E-04              | 7.81E-04                             | 2.32E+00                  | -                                    |
| 7.4 | 1.25E-01                                                              | 1.01E-02                        | 3.98E+00                        | 2.51E+08                      | 6.80E-05              | 9.57E-04                             | 2.29E+00                  | -                                    |
| 7.5 | 1.02E-01                                                              | 1.01E-02                        | 3.25E+00                        | 2.51E+08                      | 4.75E-05              | 1.24E-03                             | 2.24E+00                  | -                                    |
| 7.6 | 7.88E-02                                                              | 1.01E-02                        | 2.52E+00                        | 2.51E+08                      | 2.71E-05              | 1.52E-03                             | 2.19E+00                  | -                                    |
| 7.7 | 6.43E-02                                                              | 1.00E-02                        | 2.05E+00                        | 2.51E+08                      | 1.89E-05              | 1.96E-03                             | 2.11E+00                  | -                                    |
| 7.8 | 4.97E-02                                                              | 1.00E-02                        | 1.59E+00                        | 2.50E+08                      | 1.08E-05              | 2.40E-03                             | 2.04E+00                  | -                                    |
| 7.9 | 4.06E-02                                                              | 1.00E-02                        | 1.30E+00                        | 2.50E+08                      | 7.55E-06              | 3.10E-03                             | 1.95E+00                  | -                                    |
| 8.0 | 3.14E-02                                                              | 1.00E-02                        | 1.01E+00                        | 2.50E+08                      | 4.30E-06              | 3.80E-03                             | 1.86E+00                  | -                                    |

# Koc Values for Ionizing Organic COCs as a Function of pH

Last Revised: May 24, 2011

| pH  | Heptanoic Acid, n-<br>111-14-8 | Hexanoic acid<br>142-62-1 | Kelthane<br>115-32-2 | MCPA<br>(4-(Chloro-2-methylphenoxy)<br>acetic acid)<br>94-74-6 | MCP, acid<br>(2-(4-chloro-2-methylphenoxy)<br>propanoic acid)<br>93-65-2 | Methacrylic acid<br>(2-methyl-2-propenoic acid)<br>79-41-4 |
|-----|--------------------------------|---------------------------|----------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------|
| 4.9 | 3.85E+02                       | 4.00E+01                  | 1.26E+05             | 4.01E+01                                                       | 2.20E+01                                                                 | 4.60E+00                                                   |
| 5.0 | 3.31E+02                       | 3.44E+01                  | 1.26E+05             | 3.12E+01                                                       | 1.71E+01                                                                 | 3.67E+00                                                   |
| 5.1 | 2.85E+02                       | 2.95E+01                  | 1.26E+05             | 2.55E+01                                                       | 1.40E+01                                                                 | 3.03E+00                                                   |
| 5.2 | 2.39E+02                       | 2.47E+01                  | 1.26E+05             | 1.98E+01                                                       | 1.09E+01                                                                 | 2.39E+00                                                   |
| 5.3 | 2.02E+02                       | 2.09E+01                  | 1.26E+05             | 1.61E+01                                                       | 8.87E+00                                                                 | 1.96E+00                                                   |
| 5.4 | 1.66E+02                       | 1.71E+01                  | 1.26E+05             | 1.25E+01                                                       | 6.87E+00                                                                 | 1.54E+00                                                   |
| 5.5 | 1.39E+02                       | 1.42E+01                  | 1.26E+05             | 1.02E+01                                                       | 5.61E+00                                                                 | 1.26E+00                                                   |
| 5.6 | 1.12E+02                       | 1.14E+01                  | 1.26E+05             | 7.90E+00                                                       | 4.34E+00                                                                 | 9.83E-01                                                   |
| 5.7 | 9.26E+01                       | 9.49E+00                  | 1.26E+05             | 6.45E+00                                                       | 3.54E+00                                                                 | 8.04E-01                                                   |
| 5.8 | 7.35E+01                       | 7.53E+00                  | 1.26E+05             | 4.99E+00                                                       | 2.74E+00                                                                 | 6.25E-01                                                   |
| 5.9 | 6.06E+01                       | 6.20E+00                  | 1.26E+05             | 4.07E+00                                                       | 2.24E+00                                                                 | 5.11E-01                                                   |
| 6.0 | 4.77E+01                       | 4.88E+00                  | 1.26E+05             | 3.15E+00                                                       | 1.73E+00                                                                 | 3.97E-01                                                   |
| 6.1 | 3.92E+01                       | 4.00E+00                  | 1.26E+05             | 2.57E+00                                                       | 1.41E+00                                                                 | 3.24E-01                                                   |
| 6.2 | 3.07E+01                       | 3.13E+00                  | 1.26E+05             | 1.99E+00                                                       | 1.09E+00                                                                 | 2.51E-01                                                   |
| 6.3 | 2.51E+01                       | 2.56E+00                  | 1.26E+05             | 1.62E+00                                                       | 8.92E-01                                                                 | 2.05E-01                                                   |
| 6.4 | 1.96E+01                       | 2.00E+00                  | 1.26E+05             | 1.26E+00                                                       | 6.90E-01                                                                 | 1.59E-01                                                   |
| 6.5 | 1.60E+01                       | 1.63E+00                  | 1.26E+05             | 1.02E+00                                                       | 5.63E-01                                                                 | 1.30E-01                                                   |
| 6.6 | 1.24E+01                       | 1.27E+00                  | 1.26E+05             | 7.93E-01                                                       | 4.36E-01                                                                 | 1.00E-01                                                   |
| 6.7 | 1.02E+01                       | 1.04E+00                  | 1.26E+05             | 6.46E-01                                                       | 3.55E-01                                                                 | 8.18E-02                                                   |
| 6.8 | 7.89E+00                       | 8.05E-01                  | 1.26E+05             | 5.00E-01                                                       | 2.75E-01                                                                 | 6.34E-02                                                   |
| 6.9 | 6.44E+00                       | 6.57E-01                  | 1.26E+05             | 4.08E-01                                                       | 2.24E-01                                                                 | 5.17E-02                                                   |
| 7.0 | 4.99E+00                       | 5.09E-01                  | 1.26E+05             | 3.16E-01                                                       | 1.73E-01                                                                 | 4.00E-02                                                   |
| 7.1 | 4.07E+00                       | 4.15E-01                  | 1.26E+05             | 2.57E-01                                                       | 1.41E-01                                                                 | 3.26E-02                                                   |
| 7.2 | 3.16E+00                       | 3.22E-01                  | 1.26E+05             | 1.99E-01                                                       | 1.09E-01                                                                 | 2.52E-02                                                   |
| 7.3 | 2.57E+00                       | 2.63E-01                  | 1.26E+05             | 1.62E-01                                                       | 8.93E-02                                                                 | 2.06E-02                                                   |
| 7.4 | 1.99E+00                       | 2.03E-01                  | 1.26E+05             | 1.26E-01                                                       | 6.91E-02                                                                 | 1.59E-02                                                   |
| 7.5 | 1.63E+00                       | 1.66E-01                  | 1.26E+05             | 1.02E-01                                                       | 5.63E-02                                                                 | 1.30E-02                                                   |
| 7.6 | 1.26E+00                       | 1.28E-01                  | 1.26E+05             | 7.93E-02                                                       | 4.36E-02                                                                 | 1.01E-02                                                   |
| 7.7 | 1.03E+00                       | 1.05E-01                  | 1.26E+05             | 6.47E-02                                                       | 3.55E-02                                                                 | 8.20E-03                                                   |
| 7.8 | 7.95E-01                       | 8.10E-02                  | 1.26E+05             | 5.00E-02                                                       | 2.75E-02                                                                 | 6.34E-03                                                   |
| 7.9 | 6.48E-01                       | 6.61E-02                  | 1.26E+05             | 4.08E-02                                                       | 2.24E-02                                                                 | 5.17E-03                                                   |
| 8.0 | 5.02E-01                       | 5.11E-02                  | 1.26E+05             | 3.16E-02                                                       | 1.73E-02                                                                 | 4.00E-03                                                   |

## Koc Values for Ionizing Organic COCs as a Function of pH

Last Revised: May 24, 2011

| pH  | Methylpyridine, 2-<br>109-06-8 | Morpholine<br>110-91-8 | Naphthylamine, 1-<br>134-32-7 | Naphthylamine, 2-<br>91-59-8 | Nitrophenol, 2-<br>88-75-5 | Nitrophenol, 3-<br>554-84-7 | Nitrophenol, 4-<br>100-02-7 | Nonylphenol, 4-<br>(branched)<br>84852-15-3 |
|-----|--------------------------------|------------------------|-------------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|---------------------------------------------|
| 4.9 | 1.71E+02                       | 1.32E+00               | 9.52E+02                      | 1.44E+03                     | 2.03E+02                   | 9.33E+01                    | 4.95E+01                    | 3.01E+06                                    |
| 5.0 | 1.67E+02                       | 1.32E+00               | 8.50E+02                      | 1.27E+03                     | 2.02E+02                   | 9.33E+01                    | 4.94E+01                    | 3.01E+06                                    |
| 5.1 | 1.61E+02                       | 1.32E+00               | 7.78E+02                      | 1.16E+03                     | 2.02E+02                   | 9.33E+01                    | 4.92E+01                    | 3.01E+06                                    |
| 5.2 | 1.56E+02                       | 1.32E+00               | 7.07E+02                      | 1.04E+03                     | 2.01E+02                   | 9.33E+01                    | 4.90E+01                    | 3.01E+06                                    |
| 5.3 | 1.49E+02                       | 1.32E+00               | 6.59E+02                      | 9.61E+02                     | 2.01E+02                   | 9.33E+01                    | 4.86E+01                    | 3.01E+06                                    |
| 5.4 | 1.41E+02                       | 1.32E+00               | 6.11E+02                      | 8.81E+02                     | 2.00E+02                   | 9.32E+01                    | 4.83E+01                    | 3.01E+06                                    |
| 5.5 | 1.32E+02                       | 1.32E+00               | 5.79E+02                      | 8.27E+02                     | 1.98E+02                   | 9.32E+01                    | 4.78E+01                    | 3.01E+06                                    |
| 5.6 | 1.24E+02                       | 1.32E+00               | 5.47E+02                      | 7.74E+02                     | 1.97E+02                   | 9.32E+01                    | 4.73E+01                    | 3.01E+06                                    |
| 5.7 | 1.14E+02                       | 1.32E+00               | 5.27E+02                      | 7.39E+02                     | 1.95E+02                   | 9.32E+01                    | 4.66E+01                    | 3.01E+06                                    |
| 5.8 | 1.04E+02                       | 1.32E+00               | 5.06E+02                      | 7.04E+02                     | 1.93E+02                   | 9.31E+01                    | 4.58E+01                    | 3.01E+06                                    |
| 5.9 | 9.45E+01                       | 1.32E+00               | 4.93E+02                      | 6.82E+02                     | 1.90E+02                   | 9.31E+01                    | 4.47E+01                    | 3.01E+06                                    |
| 6.0 | 8.48E+01                       | 1.31E+00               | 4.80E+02                      | 6.59E+02                     | 1.88E+02                   | 9.30E+01                    | 4.36E+01                    | 3.01E+06                                    |
| 6.1 | 7.60E+01                       | 1.31E+00               | 4.72E+02                      | 6.45E+02                     | 1.83E+02                   | 9.29E+01                    | 4.21E+01                    | 3.01E+06                                    |
| 6.2 | 6.73E+01                       | 1.31E+00               | 4.63E+02                      | 6.30E+02                     | 1.79E+02                   | 9.28E+01                    | 4.06E+01                    | 3.01E+06                                    |
| 6.3 | 6.02E+01                       | 1.31E+00               | 4.58E+02                      | 6.21E+02                     | 1.73E+02                   | 9.27E+01                    | 3.86E+01                    | 3.01E+06                                    |
| 6.4 | 5.30E+01                       | 1.31E+00               | 4.52E+02                      | 6.12E+02                     | 1.67E+02                   | 9.25E+01                    | 3.65E+01                    | 3.01E+06                                    |
| 6.5 | 4.76E+01                       | 1.30E+00               | 4.49E+02                      | 6.06E+02                     | 1.59E+02                   | 9.23E+01                    | 3.40E+01                    | 3.01E+06                                    |
| 6.6 | 4.22E+01                       | 1.30E+00               | 4.46E+02                      | 6.00E+02                     | 1.51E+02                   | 9.20E+01                    | 3.15E+01                    | 3.01E+06                                    |
| 6.7 | 3.83E+01                       | 1.29E+00               | 4.44E+02                      | 5.97E+02                     | 1.41E+02                   | 9.17E+01                    | 2.87E+01                    | 3.01E+06                                    |
| 6.8 | 3.44E+01                       | 1.29E+00               | 4.41E+02                      | 5.93E+02                     | 1.31E+02                   | 9.13E+01                    | 2.59E+01                    | 3.01E+06                                    |
| 6.9 | 3.18E+01                       | 1.28E+00               | 4.40E+02                      | 5.91E+02                     | 1.20E+02                   | 9.07E+01                    | 2.30E+01                    | 3.01E+06                                    |
| 7.0 | 2.91E+01                       | 1.27E+00               | 4.39E+02                      | 5.88E+02                     | 1.08E+02                   | 9.02E+01                    | 2.02E+01                    | 3.01E+06                                    |
| 7.1 | 2.73E+01                       | 1.25E+00               | 4.38E+02                      | 5.87E+02                     | 9.66E+01                   | 8.93E+01                    | 1.76E+01                    | 3.00E+06                                    |
| 7.2 | 2.55E+01                       | 1.24E+00               | 4.37E+02                      | 5.85E+02                     | 8.49E+01                   | 8.84E+01                    | 1.50E+01                    | 3.00E+06                                    |
| 7.3 | 2.44E+01                       | 1.22E+00               | 4.36E+02                      | 5.85E+02                     | 7.41E+01                   | 8.71E+01                    | 1.28E+01                    | 3.00E+06                                    |
| 7.4 | 2.32E+01                       | 1.19E+00               | 4.36E+02                      | 5.84E+02                     | 6.33E+01                   | 8.58E+01                    | 1.06E+01                    | 3.00E+06                                    |
| 7.5 | 2.25E+01                       | 1.16E+00               | 4.36E+02                      | 5.83E+02                     | 5.42E+01                   | 8.38E+01                    | 8.94E+00                    | 3.00E+06                                    |
| 7.6 | 2.17E+01                       | 1.13E+00               | 4.35E+02                      | 5.82E+02                     | 4.51E+01                   | 8.19E+01                    | 7.26E+00                    | 3.00E+06                                    |
| 7.7 | 2.12E+01                       | 1.09E+00               | 4.35E+02                      | 5.82E+02                     | 3.80E+01                   | 7.91E+01                    | 6.05E+00                    | 3.00E+06                                    |
| 7.8 | 2.08E+01                       | 1.05E+00               | 4.35E+02                      | 5.82E+02                     | 3.10E+01                   | 7.64E+01                    | 4.84E+00                    | 3.00E+06                                    |
| 7.9 | 2.05E+01                       | 9.95E-01               | 4.35E+02                      | 5.81E+02                     | 2.58E+01                   | 7.27E+01                    | 4.00E+00                    | 3.00E+06                                    |
| 8.0 | 2.02E+01                       | 9.41E-01               | 4.34E+02                      | 5.81E+02                     | 2.07E+01                   | 6.91E+01                    | 3.17E+00                    | 2.99E+06                                    |

# Koc Values for Ionizing Organic COCs as a Function of pH

Last Revised: May 24, 2011

| pH  | Pentachlorophenol*<br>87-86-5 | Propanil<br>709-98-8 | Tetrachlorophenol,<br>2,3,4,5-*<br>4901-51-3 | Tetrachlorophenol,<br>2,3,4,6-*<br>58-90-2 | Tetrachlorophenol,<br>2,3,5,6-<br>935-95-5 | Toluenediamine, 2,6-<br>823-40-5 | Toluidine, o-<br>95-53-4 | Trichlorophenol,<br>2,3,4-<br>15950-66-0 |
|-----|-------------------------------|----------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|----------------------------------|--------------------------|------------------------------------------|
| 4.9 | 9.05E+03                      | 9.33E+02             | 1.73E+04                                     | 4.45E+03                                   | 1.60E+04                                   | 9.01E+00                         | 1.85E+02                 | 7.51E+03                                 |
| 5.0 | 7.96E+03                      | 9.33E+02             | 1.72E+04                                     | 4.15E+03                                   | 1.42E+04                                   | 8.29E+00                         | 1.65E+02                 | 7.49E+03                                 |
| 5.1 | 6.93E+03                      | 9.33E+02             | 1.70E+04                                     | 3.83E+03                                   | 1.24E+04                                   | 7.55E+00                         | 1.47E+02                 | 7.46E+03                                 |
| 5.2 | 5.97E+03                      | 9.33E+02             | 1.67E+04                                     | 3.49E+03                                   | 1.07E+04                                   | 6.81E+00                         | 1.30E+02                 | 7.44E+03                                 |
| 5.3 | 5.10E+03                      | 9.33E+02             | 1.65E+04                                     | 3.14E+03                                   | 9.18E+03                                   | 6.13E+00                         | 1.16E+02                 | 7.40E+03                                 |
| 5.4 | 4.32E+03                      | 9.33E+02             | 1.61E+04                                     | 2.79E+03                                   | 7.68E+03                                   | 5.44E+00                         | 1.03E+02                 | 7.35E+03                                 |
| 5.5 | 3.65E+03                      | 9.33E+02             | 1.57E+04                                     | 2.45E+03                                   | 6.50E+03                                   | 4.87E+00                         | 9.26E+01                 | 7.29E+03                                 |
| 5.6 | 3.07E+03                      | 9.33E+02             | 1.52E+04                                     | 2.13E+03                                   | 5.32E+03                                   | 4.29E+00                         | 8.25E+01                 | 7.22E+03                                 |
| 5.7 | 2.58E+03                      | 9.33E+02             | 1.47E+04                                     | 1.83E+03                                   | 4.45E+03                                   | 3.84E+00                         | 7.55E+01                 | 7.13E+03                                 |
| 5.8 | 2.18E+03                      | 9.33E+02             | 1.40E+04                                     | 1.56E+03                                   | 3.58E+03                                   | 3.40E+00                         | 6.84E+01                 | 7.03E+03                                 |
| 5.9 | 1.84E+03                      | 9.33E+02             | 1.32E+04                                     | 1.32E+03                                   | 2.96E+03                                   | 3.07E+00                         | 6.36E+01                 | 6.89E+03                                 |
| 6.0 | 1.56E+03                      | 9.33E+02             | 1.24E+04                                     | 1.11E+03                                   | 2.35E+03                                   | 2.75E+00                         | 5.88E+01                 | 6.74E+03                                 |
| 6.1 | 1.33E+03                      | 9.33E+02             | 1.15E+04                                     | 9.27E+02                                   | 1.94E+03                                   | 2.52E+00                         | 5.57E+01                 | 6.53E+03                                 |
| 6.2 | 1.15E+03                      | 9.33E+02             | 1.05E+04                                     | 7.75E+02                                   | 1.53E+03                                   | 2.29E+00                         | 5.25E+01                 | 6.33E+03                                 |
| 6.3 | 9.98E+02                      | 9.33E+02             | 9.51E+03                                     | 6.47E+02                                   | 1.25E+03                                   | 2.14E+00                         | 5.04E+01                 | 6.05E+03                                 |
| 6.4 | 8.77E+02                      | 9.32E+02             | 8.48E+03                                     | 5.42E+02                                   | 9.80E+02                                   | 1.99E+00                         | 4.84E+01                 | 5.77E+03                                 |
| 6.5 | 7.81E+02                      | 9.32E+02             | 7.47E+03                                     | 4.55E+02                                   | 8.03E+02                                   | 1.89E+00                         | 4.71E+01                 | 5.42E+03                                 |
| 6.6 | 7.03E+02                      | 9.32E+02             | 6.49E+03                                     | 3.84E+02                                   | 6.25E+02                                   | 1.79E+00                         | 4.57E+01                 | 5.06E+03                                 |
| 6.7 | 6.40E+02                      | 9.32E+02             | 5.58E+03                                     | 3.27E+02                                   | 5.11E+02                                   | 1.72E+00                         | 4.49E+01                 | 4.65E+03                                 |
| 6.8 | 5.92E+02                      | 9.31E+02             | 4.74E+03                                     | 2.80E+02                                   | 3.97E+02                                   | 1.66E+00                         | 4.41E+01                 | 4.24E+03                                 |
| 6.9 | 5.52E+02                      | 9.31E+02             | 3.99E+03                                     | 2.42E+02                                   | 3.25E+02                                   | 1.62E+00                         | 4.35E+01                 | 3.80E+03                                 |
| 7.0 | 5.21E+02                      | 9.30E+02             | 3.33E+03                                     | 2.13E+02                                   | 2.52E+02                                   | 1.58E+00                         | 4.30E+01                 | 3.37E+03                                 |
| 7.1 | 4.96E+02                      | 9.29E+02             | 2.76E+03                                     | 1.88E+02                                   | 2.06E+02                                   | 1.55E+00                         | 4.27E+01                 | 2.95E+03                                 |
| 7.2 | 4.76E+02                      | 9.28E+02             | 2.28E+03                                     | 1.69E+02                                   | 1.59E+02                                   | 1.52E+00                         | 4.23E+01                 | 2.54E+03                                 |
| 7.3 | 4.61E+02                      | 9.27E+02             | 1.87E+03                                     | 1.53E+02                                   | 1.30E+02                                   | 1.51E+00                         | 4.21E+01                 | 2.18E+03                                 |
| 7.4 | 4.47E+02                      | 9.26E+02             | 1.53E+03                                     | 1.41E+02                                   | 1.01E+02                                   | 1.49E+00                         | 4.19E+01                 | 1.83E+03                                 |
| 7.5 | 4.37E+02                      | 9.23E+02             | 1.25E+03                                     | 1.31E+02                                   | 8.22E+01                                   | 1.48E+00                         | 4.17E+01                 | 1.55E+03                                 |
| 7.6 | 4.29E+02                      | 9.21E+02             | 1.02E+03                                     | 1.23E+02                                   | 6.37E+01                                   | 1.47E+00                         | 4.16E+01                 | 1.27E+03                                 |
| 7.7 | 4.23E+02                      | 9.18E+02             | 8.31E+02                                     | 1.17E+02                                   | 5.19E+01                                   | 1.46E+00                         | 4.15E+01                 | 1.06E+03                                 |
| 7.8 | 4.18E+02                      | 9.14E+02             | 6.79E+02                                     | 1.13E+02                                   | 4.02E+01                                   | 1.46E+00                         | 4.14E+01                 | 8.52E+02                                 |
| 7.9 | 4.14E+02                      | 9.09E+02             | 5.56E+02                                     | 1.08E+02                                   | 3.28E+01                                   | 1.45E+00                         | 4.14E+01                 | 7.06E+02                                 |
| 8.0 | 4.10E+02                      | 9.03E+02             | 4.58E+02                                     | 1.05E+02                                   | 2.54E+01                                   | 1.45E+00                         | 4.13E+01                 | 5.61E+02                                 |

# Koc Values for Ionizing Organic COCs as a Function of pH

Last Revised: May 24, 2011

| pH  | Trichlorophenol,<br>2,3,5-<br>933-78-8 | Trichlorophenol,<br>2,3,6-<br>933-75-5 | Trichlorophenol,<br>2,4,5-*<br>95-95-4 | Trichlorophenol,<br>2,4,6-*<br>88-06-2 | Trichlorophenol,<br>3,4,5-<br>609-19-8 | Valeric acid<br>(pentanoic acid)<br>109-52-4 |
|-----|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------------|
| 4.9 | 5.47E+03                               | 4.00E+04                               | 2.37E+03                               | 1.04E+03                               | 8.13E+03                               | 1.24E+01                                     |
| 5.0 | 5.45E+03                               | 3.88E+04                               | 2.36E+03                               | 1.03E+03                               | 8.13E+03                               | 1.06E+01                                     |
| 5.1 | 5.41E+03                               | 3.71E+04                               | 2.36E+03                               | 1.02E+03                               | 8.12E+03                               | 9.12E+00                                     |
| 5.2 | 5.38E+03                               | 3.55E+04                               | 2.35E+03                               | 1.01E+03                               | 8.12E+03                               | 7.63E+00                                     |
| 5.3 | 5.32E+03                               | 3.34E+04                               | 2.34E+03                               | 9.99E+02                               | 8.12E+03                               | 6.45E+00                                     |
| 5.4 | 5.27E+03                               | 3.13E+04                               | 2.33E+03                               | 9.82E+02                               | 8.11E+03                               | 5.27E+00                                     |
| 5.5 | 5.19E+03                               | 2.88E+04                               | 2.32E+03                               | 9.62E+02                               | 8.10E+03                               | 4.40E+00                                     |
| 5.6 | 5.11E+03                               | 2.64E+04                               | 2.31E+03                               | 9.38E+02                               | 8.09E+03                               | 3.54E+00                                     |
| 5.7 | 4.99E+03                               | 2.37E+04                               | 2.29E+03                               | 9.10E+02                               | 8.08E+03                               | 2.93E+00                                     |
| 5.8 | 4.87E+03                               | 2.11E+04                               | 2.27E+03                               | 8.77E+02                               | 8.07E+03                               | 2.33E+00                                     |
| 5.9 | 4.71E+03                               | 1.86E+04                               | 2.24E+03                               | 8.39E+02                               | 8.04E+03                               | 1.92E+00                                     |
| 6.0 | 4.54E+03                               | 1.60E+04                               | 2.21E+03                               | 7.96E+02                               | 8.02E+03                               | 1.51E+00                                     |
| 6.1 | 4.32E+03                               | 1.38E+04                               | 2.17E+03                               | 7.48E+02                               | 7.99E+03                               | 1.24E+00                                     |
| 6.2 | 4.10E+03                               | 1.16E+04                               | 2.12E+03                               | 6.97E+02                               | 7.96E+03                               | 9.68E-01                                     |
| 6.3 | 3.82E+03                               | 9.85E+03                               | 2.06E+03                               | 6.44E+02                               | 7.90E+03                               | 7.93E-01                                     |
| 6.4 | 3.55E+03                               | 8.08E+03                               | 1.99E+03                               | 5.89E+02                               | 7.85E+03                               | 6.17E-01                                     |
| 6.5 | 3.24E+03                               | 6.77E+03                               | 1.91E+03                               | 5.33E+02                               | 7.77E+03                               | 5.05E-01                                     |
| 6.6 | 2.93E+03                               | 5.45E+03                               | 1.82E+03                               | 4.80E+02                               | 7.69E+03                               | 3.92E-01                                     |
| 6.7 | 2.61E+03                               | 4.53E+03                               | 1.71E+03                               | 4.29E+02                               | 7.57E+03                               | 3.21E-01                                     |
| 6.8 | 2.29E+03                               | 3.60E+03                               | 1.60E+03                               | 3.81E+02                               | 7.45E+03                               | 2.49E-01                                     |
| 6.9 | 2.00E+03                               | 2.97E+03                               | 1.47E+03                               | 3.38E+02                               | 7.28E+03                               | 2.03E-01                                     |
| 7.0 | 1.70E+03                               | 2.34E+03                               | 1.34E+03                               | 3.00E+02                               | 7.10E+03                               | 1.57E-01                                     |
| 7.1 | 1.46E+03                               | 1.92E+03                               | 1.21E+03                               | 2.67E+02                               | 6.86E+03                               | 1.28E-01                                     |
| 7.2 | 1.21E+03                               | 1.50E+03                               | 1.07E+03                               | 2.39E+02                               | 6.61E+03                               | 9.83E-02                                     |
| 7.3 | 1.02E+03                               | 1.23E+03                               | 9.43E+02                               | 2.15E+02                               | 6.29E+03                               | 8.06E-02                                     |
| 7.4 | 8.31E+02                               | 9.60E+02                               | 8.19E+02                               | 1.95E+02                               | 5.96E+03                               | 6.28E-02                                     |
| 7.5 | 6.93E+02                               | 7.85E+02                               | 7.03E+02                               | 1.78E+02                               | 5.55E+03                               | 5.12E-02                                     |
| 7.6 | 5.55E+02                               | 6.10E+02                               | 5.99E+02                               | 1.64E+02                               | 5.15E+03                               | 3.97E-02                                     |
| 7.7 | 4.59E+02                               | 4.99E+02                               | 5.07E+02                               | 1.53E+02                               | 4.70E+03                               | 3.24E-02                                     |
| 7.8 | 3.64E+02                               | 3.87E+02                               | 4.26E+02                               | 1.44E+02                               | 4.24E+03                               | 2.50E-02                                     |
| 7.9 | 2.99E+02                               | 3.16E+02                               | 3.57E+02                               | 1.37E+02                               | 3.78E+03                               | 2.04E-02                                     |
| 8.0 | 2.35E+02                               | 2.45E+02                               | 2.98E+02                               | 1.31E+02                               | 3.31E+03                               | 1.58E-02                                     |

## Footnotes

1 Glyphosate - Koc under review. Contact your TCEQ Project Manager for assistance if glyphosate is a chemical of concern.

\* As listed in Figure: 30 TAC §350.73(f)(1)(B)

This table shows the carbon-water partitioning coefficient for select chemicals of concern based on pH values.

end of worksheet

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern            | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|--------------------------------|------------|---------------------------------|---------------------|
| Acenaphthene                   | 83-32-9    | 8.90E-01                        | 1.30E-01            |
| Acenaphthylene                 | 208-96-8   | 8.90E-01                        | 1.30E-01            |
| Acetaldehyde                   | 75-07-0    | 8.00E-01                        | 0.00E+00            |
| Acetate, 2-ethoxyethanol       | 111-15-9   | 8.00E-01                        | 0.00E+00            |
| Acetate, isoamyl               | 123-92-2   | 8.00E-01                        | 0.00E+00            |
| Acetate, isobutyl              | 110-19-0   | 8.00E-01                        | 0.00E+00            |
| Acetate, sec-butyl             | 105-46-4   | 8.00E-01                        | 0.00E+00            |
| Acetic acid*                   | 64-19-7    | 0.00E+00                        | 0.00E+00            |
| Acetone (2-propanone)          | 67-64-1    | 8.30E-01                        | 0.00E+00            |
| Acetone cyanohydrin            | 75-86-5    | 5.00E-01                        | 1.00E-01            |
| Acetonitrile                   | 75-05-8    | 8.00E-01                        | 0.00E+00            |
| Acetophenone                   | 98-86-2    | 5.00E-01                        | 1.00E-01            |
| Acetylaminofluorene, 2-        | 53-96-3    | 5.00E-01                        | 1.00E-01            |
| Acifluorfen, sodium            | 62476-59-9 | 5.00E-01                        | 1.00E-01            |
| Acridine                       | 260-94-6   | 5.00E-01                        | 1.00E-01            |
| Acrolein                       | 107-02-8   | 8.00E-01                        | 0.00E+00            |
| Acrylamide                     | 79-06-1    | 5.00E-01                        | 1.00E-01            |
| Acrylic acid                   | 79-10-7    | 8.00E-01                        | 0.00E+00            |
| Acrylonitrile                  | 107-13-1   | 8.00E-01                        | 0.00E+00            |
| Adipic acid (hexanedioic acid) | 124-04-9   | 5.00E-01                        | 1.00E-01            |
| Alachlor                       | 15972-60-8 | 5.00E-01                        | 1.00E-01            |
| Aldicarb                       | 116-06-3   | 5.00E-01                        | 1.00E-01            |
| Aldicarb sulfone               | 1646-88-4  | 5.00E-01                        | 1.00E-01            |
| Aldrin                         | 309-00-2   | 5.00E-01                        | 1.00E-01            |
| Allyl alcohol                  | 107-18-6   | 8.00E-01                        | 0.00E+00            |
| Allyl chloride                 | 107-05-1   | 8.00E-01                        | 0.00E+00            |
| Aluminum                       | 7429-90-5  | 1.00E-01                        | 1.00E-02            |
| Ametryn                        | 834-12-8   | 5.00E-01                        | 1.00E-01            |
| Amino-2,6-dinitrotoluene, 4-   | 19406-51-0 | 5.00E-01                        | 1.00E-01            |
| Amino-4,6-dinitrotoluene, 2-   | 35572-78-2 | 5.00E-01                        | 1.00E-01            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                           | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-----------------------------------------------|------------|---------------------------------|---------------------|
| Aminobiphenyl, 4- (1,1-biphenyl-4-amine)      | 92-67-1    | 5.00E-01                        | 1.00E-01            |
| Aminopyridine, 4-                             | 504-24-5   | 5.00E-01                        | 1.00E-01            |
| Ammonia                                       | 7664-41-7  | 2.00E-01                        | 1.00E-02            |
| Ammonium polyphosphate*                       | 6833-79-9  | 0.00E+00                        | 0.00E+00            |
| Ammonium salts*                               | AMMONIUM   | 0.00E+00                        | 0.00E+00            |
| Aniline                                       | 62-53-3    | 5.00E-01                        | 1.00E-01            |
| Anthracene                                    | 120-12-7   | 8.90E-01                        | 1.30E-01            |
| Anthraquinone, 9,10-                          | 84-65-1    | 5.00E-01                        | 1.00E-01            |
| Antimony                                      | 7440-36-0  | 1.50E-01                        | 1.00E-02            |
| Aramite                                       | 140-57-8   | 5.00E-01                        | 1.00E-01            |
| Arsenic                                       | 7440-38-2  | 9.50E-01                        | 3.00E-02            |
| Arsine                                        | 7784-42-1  | 2.00E-01                        | 1.00E-02            |
| Atrazine                                      | 1912-24-9  | 5.00E-01                        | 1.00E-01            |
| Azinphos-methyl (guthion)                     | 86-50-0    | 5.00E-01                        | 1.00E-01            |
| Azobenzene                                    | 103-33-3   | 5.00E-01                        | 1.00E-01            |
| Barium                                        | 7440-39-3  | 7.00E-02                        | 1.00E-02            |
| Bayleton                                      | 43121-43-3 | 5.00E-01                        | 1.00E-01            |
| Benefin (benfluralin)                         | 1861-40-1  | 5.00E-01                        | 1.00E-01            |
| Benomyl                                       | 17804-35-2 | 5.00E-01                        | 1.00E-01            |
| Benz-a-anthracene                             | 56-55-3    | 8.90E-01                        | 1.30E-01            |
| Benzaldehyde                                  | 100-52-7   | 8.00E-01                        | 0.00E+00            |
| Benzene                                       | 71-43-2    | 9.70E-01                        | 0.00E+00            |
| Benzenedicarbonitrile, 1,3-                   | 626-17-5   | 5.00E-01                        | 1.00E-01            |
| Benzenedicarboxylic acid, 1,2-disodecyl ester | 26761-40-0 | 5.00E-01                        | 1.00E-01            |
| Benzenethiol                                  | 108-98-5   | 8.00E-01                        | 0.00E+00            |
| Benzidine                                     | 92-87-5    | 8.00E-01                        | 1.00E-01            |
| Benzo-a-pyrene                                | 50-32-8    | 8.90E-01                        | 1.30E-01            |
| Benzo-b-fluoranthene                          | 205-99-2   | 8.90E-01                        | 1.30E-01            |
| Benzo-e-pyrene                                | 192-97-2   | 8.90E-01                        | 1.30E-01            |
| Benzo-g,h,i-perylene                          | 191-24-2   | 8.90E-01                        | 1.30E-01            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                 | CAS       | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-------------------------------------|-----------|---------------------------------|---------------------|
| Benzoic acid                        | 65-85-0   | 1.00E+00                        | 1.00E-01            |
| Benzo-j-fluoranthene                | 205-82-3  | 8.90E-01                        | 1.30E-01            |
| Benzo-k-fluoranthene                | 207-08-9  | 8.90E-01                        | 1.30E-01            |
| Benzophenone                        | 119-61-9  | 5.00E-01                        | 1.00E-01            |
| Benzotrichloride                    | 98-07-7   | 5.00E-01                        | 1.00E-01            |
| Benzoyl peroxide                    | 94-36-0   | 5.00E-01                        | 1.00E-01            |
| Benzyl alcohol                      | 100-51-6  | 6.60E-01                        | 1.00E-01            |
| Benzyl chloride                     | 100-44-7  | 8.00E-01                        | 0.00E+00            |
| Benzyl dichloride                   | 98-87-3   | 5.00E-01                        | 1.00E-01            |
| Beryllium                           | 7440-41-7 | 7.00E-03                        | 1.00E-02            |
| Biphenyl, 1,1-                      | 92-52-4   | 5.00E-01                        | 1.00E-01            |
| Biphenyl, 1,1'-, 2-phenoxy-         | 6738-04-1 | 5.00E-01                        | 1.00E-01            |
| Biquinoline, 2,2'-                  | 119-91-5  | 5.00E-01                        | 1.00E-01            |
| Bis (2-chloroethoxy) methane        | 111-91-1  | 5.00E-01                        | 1.00E-01            |
| Bis (2-chloroethyl) ether           | 111-44-4  | 8.00E-01                        | 0.00E+00            |
| Bis (2-chloro-1-methylethyl) ether  | 108-60-1  | 5.00E-01                        | 1.00E-01            |
| Bis (2-chloromethyl) ether          | 542-88-1  | 8.00E-01                        | 0.00E+00            |
| Bis (2-ethyl-hexyl) phthalate       | 117-81-7  | 1.90E-01                        | 1.00E-01            |
| Bismuth                             | 7440-69-9 | 2.00E-01                        | 1.00E-02            |
| Bisphenol A                         | 80-05-7   | 5.00E-01                        | 1.00E-01            |
| Boron                               | 7440-42-8 | 9.00E-01                        | 1.00E-02            |
| Bromacil                            | 314-40-9  | 5.00E-01                        | 1.00E-01            |
| Bromo-2-chloroethane, 1-            | 107-04-0  | 8.00E-01                        | 0.00E+00            |
| Bromobenzene                        | 108-86-1  | 8.00E-01                        | 0.00E+00            |
| Bromodichloromethane                | 75-27-4   | 9.80E-01                        | 0.00E+00            |
| Bromoform                           | 75-25-2   | 6.00E-01                        | 0.00E+00            |
| Bromomethane                        | 74-83-9   | 8.00E-01                        | 0.00E+00            |
| Bromophenyl phenylether, 4-         | 101-55-3  | 5.00E-01                        | 1.00E-01            |
| Butadiene, 1,3-                     | 106-99-0  | 8.00E-01                        | 0.00E+00            |
| Butadiene, 2-methyl-1,3- (isoprene) | 78-79-5   | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                                        | CAS       | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|------------------------------------------------------------|-----------|---------------------------------|---------------------|
| Butanal (butyraldehyde)                                    | 123-72-8  | 8.00E-01                        | 0.00E+00            |
| Butane, 2,3-dimethyl-                                      | 79-29-8   | 8.00E-01                        | 0.00E+00            |
| Butanoic acid (butyric acid)                               | 107-92-6  | 5.00E-01                        | 1.00E-01            |
| Butanol, 2-                                                | 78-92-2   | 8.00E-01                        | 0.00E+00            |
| Butanol, 2-methyl-1-                                       | 137-32-6  | 5.00E-01                        | 1.00E-01            |
| Butanol, 2-methyl-2-                                       | 75-85-4   | 8.00E-01                        | 0.00E+00            |
| Butanol, n-                                                | 71-36-3   | 8.00E-01                        | 0.00E+00            |
| Butene, 1-                                                 | 106-98-9  | 8.00E-01                        | 0.00E+00            |
| Butene, cis-2-                                             | 590-18-1  | 8.00E-01                        | 0.00E+00            |
| Butene, trans-2-                                           | 624-64-6  | 8.00E-01                        | 0.00E+00            |
| Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE) | 111-76-2  | 5.00E-01                        | 1.00E-01            |
| Butyl acetate                                              | 123-86-4  | 8.00E-01                        | 0.00E+00            |
| Butyl acrylate                                             | 141-32-2  | 8.00E-01                        | 0.00E+00            |
| Butyl benzyl phthalate                                     | 85-68-7   | 6.10E-01                        | 1.00E-01            |
| Butyl ether, n- (dibutyl ether)                            | 142-96-1  | 8.00E-01                        | 0.00E+00            |
| Butyl methacrylate                                         | 97-88-1   | 9.40E-01                        | 5.00E-01            |
| Butylate                                                   | 2008-41-5 | 5.00E-01                        | 1.00E-01            |
| Butylbenzene, n-                                           | 104-51-8  | 5.00E-01                        | 1.00E-01            |
| Butylbenzene, sec-                                         | 135-98-8  | 8.00E-01                        | 0.00E+00            |
| Butylbenzene, tert-                                        | 98-06-6   | 8.00E-01                        | 0.00E+00            |
| Cacodylic acid                                             | 75-60-5   | 5.00E-01                        | 1.00E-01            |
| Cadmium                                                    | 7440-43-9 | 2.50E-02                        | 1.00E-03            |
| Calcium*                                                   | 7440-70-2 | 0.00E+00                        | 0.00E+00            |
| Caprolactam                                                | 105-60-2  | 5.00E-01                        | 1.00E-01            |
| Captan                                                     | 133-06-2  | 5.00E-01                        | 1.00E-01            |
| Carbaryl                                                   | 63-25-2   | 5.00E-01                        | 1.00E-01            |
| Carbazole                                                  | 86-74-8   | 7.00E-01                        | 1.00E-01            |
| Carbofuran                                                 | 1563-66-2 | 5.00E-01                        | 1.00E-01            |
| Carbon disulfide                                           | 75-15-0   | 6.30E-01                        | 0.00E+00            |
| Carbon tetrachloride                                       | 56-23-5   | 6.50E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                                   | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-------------------------------------------------------|------------|---------------------------------|---------------------|
| Carbophenothion                                       | 786-19-6   | 5.00E-01                        | 1.00E-01            |
| Carbosulfan                                           | 55285-14-8 | 5.00E-01                        | 1.00E-01            |
| Carboxin                                              | 5234-68-4  | 5.00E-01                        | 1.00E-01            |
| Chloral                                               | 75-87-6    | 8.00E-01                        | 0.00E+00            |
| Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)    | 302-17-0   | 5.00E-01                        | 1.00E-01            |
| Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid) | 133-90-4   | 5.00E-01                        | 1.00E-01            |
| Chlordane (technical)                                 | 12789-03-6 | 8.00E-01                        | 4.00E-02            |
| Chlordane, cis- (alpha chlordane)                     | 5103-71-9  | 5.00E-01                        | 1.00E-01            |
| Chlordane, trans- (gamma chlordane)                   | 5103-74-2  | 5.00E-01                        | 1.00E-01            |
| Chlorfenvinphos                                       | 470-90-6   | 5.00E-01                        | 1.00E-01            |
| Chloride*                                             | 16887-00-6 | 0.00E+00                        | 0.00E+00            |
| Chlorine                                              | 7782-50-5  | 2.00E-01                        | 1.00E-02            |
| Chloro-1,3-butadiene, 2-                              | 126-99-8   | 8.00E-01                        | 0.00E+00            |
| Chloro-2-propanol, 1-                                 | 127-00-4   | 8.00E-01                        | 0.00E+00            |
| Chloro-3-methylphenol, 4-                             | 59-50-7    | 5.00E-01                        | 1.00E-01            |
| Chloroaniline, p-                                     | 106-47-8   | 5.00E-01                        | 1.00E-01            |
| Chlorobenzene                                         | 108-90-7   | 3.10E-01                        | 0.00E+00            |
| Chlorobenzilate                                       | 510-15-6   | 5.00E-01                        | 1.00E-01            |
| Chlorobromomethane (bromochloromethane)               | 74-97-5    | 8.00E-01                        | 0.00E+00            |
| Chlorodifluoromethane                                 | 75-45-6    | 8.00E-01                        | 0.00E+00            |
| Chloroethane (ethyl chloride)                         | 75-00-3    | 8.00E-01                        | 0.00E+00            |
| Chloroethanol, 2-                                     | 107-07-3   | 8.00E-01                        | 0.00E+00            |
| Chloroethoxy ethene, 2- (2-chloroethylvinylether)     | 110-75-8   | 8.00E-01                        | 0.00E+00            |
| Chloroform                                            | 67-66-3    | 2.00E-01                        | 0.00E+00            |
| Chlorohexane, 1-                                      | 544-10-5   | 8.00E-01                        | 0.00E+00            |
| Chloromethane (methyl chloride)                       | 74-87-3    | 8.00E-01                        | 0.00E+00            |
| Chloronaphthalene, 1- (Chloronaphthalene, alpha-)     | 90-13-1    | 8.90E-01                        | 1.30E-01            |
| Chloronaphthalene, 2- (chloronaphthalene, beta)       | 91-58-7    | 8.90E-01                        | 1.30E-01            |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)      | 100-00-5   | 5.00E-01                        | 1.00E-01            |
| Chlorophenol, 2-                                      | 95-57-8    | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                 | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-------------------------------------|------------|---------------------------------|---------------------|
| Chlorophenol, 3-                    | 108-43-0   | 5.00E-01                        | 1.00E-01            |
| Chlorophenol, 4-                    | 106-48-9   | 5.00E-01                        | 1.00E-01            |
| Chlorophenyl phenylether, 4-        | 7005-72-3  | 5.00E-01                        | 1.00E-01            |
| Chloropropane, 2-                   | 75-29-6    | 8.00E-01                        | 0.00E+00            |
| Chlorothalonil                      | 1897-45-6  | 5.00E-01                        | 1.00E-01            |
| Chlorotoluene, o- (2-chlorotoluene) | 95-49-8    | 5.00E-01                        | 1.00E-01            |
| Chlorotoluene, p- (4-chlorotoluene) | 106-43-4   | 8.00E-01                        | 0.00E+00            |
| Chlorpyrifos                        | 2921-88-2  | 5.00E-01                        | 1.00E-01            |
| Chromium (III)                      | 16065-83-1 | 1.30E-02                        | 1.00E-02            |
| Chromium (total)                    | 7440-47-3  | 1.30E-02                        | 1.00E-02            |
| Chromium (VI)                       | 18540-29-9 | 2.50E-02                        | 1.00E-02            |
| Chrysene                            | 218-01-9   | 8.90E-01                        | 1.30E-01            |
| Cobalt                              | 7440-48-4  | 8.00E-01                        | 1.00E-02            |
| Copolymer acrylamide                | 69418-26-4 | 5.00E-01                        | 1.00E-01            |
| Copper                              | 7440-50-8  | 5.70E-01                        | 1.00E-02            |
| Coronene                            | 191-07-1   | 5.00E-01                        | 1.00E-01            |
| Coumaphos                           | 56-72-4    | 5.00E-01                        | 1.00E-01            |
| Cresol                              | 1319-77-3  | 5.00E-01                        | 1.00E-01            |
| Cresol, m- (3-methylphenol)         | 108-39-4   | 5.00E-01                        | 1.00E-01            |
| Cresol, o- (2-methylphenol)         | 95-48-7    | 5.00E-01                        | 1.00E-01            |
| Cresol, p- (4-methylphenol)         | 106-44-5   | 6.50E-01                        | 1.00E-01            |
| Crotonaldehyde                      | 123-73-9   | 8.00E-01                        | 0.00E+00            |
| Cumene (isopropylbenzene)           | 98-82-8    | 8.00E-01                        | 0.00E+00            |
| Cyanazine                           | 21725-46-2 | 5.00E-01                        | 1.00E-01            |
| Cyanide                             | 57-12-5    | 5.00E-01                        | 1.00E-02            |
| Cyanogen                            | 460-19-5   | 8.00E-01                        | 0.00E+00            |
| Cycloate                            | 1134-23-2  | 5.00E-01                        | 1.00E-01            |
| Cyclohexane                         | 110-82-7   | 8.00E-01                        | 0.00E+00            |
| Cyclohexanol                        | 108-93-0   | 5.00E-01                        | 1.00E-01            |
| Cyclohexanone                       | 108-94-1   | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                                | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|----------------------------------------------------|------------|---------------------------------|---------------------|
| Cyclohexene, 1-methanol-3-                         | 1679-51-2  | 5.00E-01                        | 1.00E-01            |
| Cyclohexene, 4-vinyl-1-                            | 100-40-3   | 8.00E-01                        | 0.00E+00            |
| Cyclopentane                                       | 287-92-3   | 8.00E-01                        | 0.00E+00            |
| Cyclopentane, methyl-                              | 96-37-7    | 8.00E-01                        | 0.00E+00            |
| Cyclopentene                                       | 142-29-0   | 8.00E-01                        | 0.00E+00            |
| Cyclotetramethylenetetranitramine (HMX)            | 2691-41-0  | 1.50E-01                        | 1.00E-01            |
| Cyclotrimethylenetrinitramine (RDX)                | 121-82-4   | 1.00E+00                        | 1.00E-01            |
| Cymene (isopropyltoluene)                          | 99-87-6    | 8.00E-01                        | 0.00E+00            |
| Cymoxanil                                          | 57966-95-7 | 5.00E-01                        | 1.00E-01            |
| Dacthal (DCPA)                                     | 1861-32-1  | 5.00E-01                        | 1.00E-01            |
| Dalapon, sodium salt (2,2-dichloropropanoic acid)  | 75-99-0    | 5.00E-01                        | 1.00E-01            |
| DDD                                                | 72-54-8    | 7.00E-01                        | 3.00E-02            |
| DDE                                                | 72-55-9    | 7.00E-01                        | 3.00E-02            |
| DDT                                                | 50-29-3    | 7.00E-01                        | 3.00E-02            |
| Demeton                                            | 8065-48-3  | 5.00E-01                        | 1.00E-01            |
| Desethylatrazine                                   | 6190-65-4  | 5.00E-01                        | 1.00E-01            |
| Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone) | 123-42-2   | 5.00E-01                        | 1.00E-01            |
| Diallate                                           | 2303-16-4  | 5.00E-01                        | 1.00E-01            |
| Diazinon                                           | 333-41-5   | 5.00E-01                        | 1.00E-01            |
| Dibenz(a,h)acridine                                | 226-36-8   | 5.00E-01                        | 1.00E-01            |
| Dibenz(a,j)acridine                                | 224-42-0   | 8.90E-01                        | 1.30E-01            |
| Dibenz-a,h-anthracene                              | 53-70-3    | 8.90E-01                        | 1.30E-01            |
| Dibenzo(a,e)pyrene                                 | 192-65-4   | 5.00E-01                        | 1.00E-01            |
| Dibenzo(a,h)pyrene                                 | 189-64-0   | 5.00E-01                        | 1.00E-01            |
| Dibenzo(a,i)pyrene                                 | 189-55-9   | 5.00E-01                        | 1.00E-01            |
| Dibenzofuran                                       | 132-64-9   | 5.00E-01                        | 1.00E-01            |
| Dibenzothiophene                                   | 132-65-0   | 5.00E-01                        | 1.00E-01            |
| Dibromo-3-chloropropane, 1,2-                      | 96-12-8    | 5.00E-01                        | 1.00E-01            |
| Dibromochloromethane (chlorodibromomethane)        | 124-48-1   | 6.00E-01                        | 0.00E+00            |
| Dibromofluoromethane                               | 1868-53-7  | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                                   | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-------------------------------------------------------|------------|---------------------------------|---------------------|
| Dicamba                                               | 1918-00-9  | 5.00E-01                        | 1.00E-01            |
| Dichlormid                                            | 37764-25-3 | 5.00E-01                        | 1.00E-01            |
| Dichloro-2-butene, 1,4-                               | 764-41-0   | 8.00E-01                        | 0.00E+00            |
| Dichloro-2-butene, 1,4- trans                         | 110-57-6   | 8.00E-01                        | 0.00E+00            |
| Dichlorobenzene, 1,2-                                 | 95-50-1    | 8.00E-01                        | 0.00E+00            |
| Dichlorobenzene, 1,3-                                 | 541-73-1   | 8.00E-01                        | 0.00E+00            |
| Dichlorobenzene, 1,4-                                 | 106-46-7   | 9.00E-01                        | 0.00E+00            |
| Dichlorobenzidine, 3,3-                               | 91-94-1    | 5.00E-01                        | 1.00E-01            |
| Dichlorobutane, 2,3-                                  | 7581-97-7  | 8.00E-01                        | 0.00E+00            |
| Dichlorodifluoromethane                               | 75-71-8    | 2.30E-01                        | 0.00E+00            |
| Dichloroethane, 1,1-                                  | 75-34-3    | 1.00E+00                        | 0.00E+00            |
| Dichloroethane, 1,2-                                  | 107-06-2   | 1.00E+00                        | 0.00E+00            |
| Dichloroethylene, 1,1-                                | 75-35-4    | 1.00E+00                        | 0.00E+00            |
| Dichloroethylene, cis-1,2-                            | 156-59-2   | 1.00E+00                        | 0.00E+00            |
| Dichloroethylene, trans-1,2                           | 156-60-5   | 1.00E+00                        | 0.00E+00            |
| Dichlorofluoromethane                                 | 75-43-4    | 8.00E-01                        | 0.00E+00            |
| Dichlorophenol, 2,3-                                  | 576-24-9   | 5.00E-01                        | 1.00E-01            |
| Dichlorophenol, 2,4-                                  | 120-83-2   | 8.20E-01                        | 1.00E-01            |
| Dichlorophenol, 2,5-                                  | 583-78-8   | 5.00E-01                        | 1.00E-01            |
| Dichlorophenol, 2,6-                                  | 87-65-0    | 5.00E-01                        | 1.00E-01            |
| Dichlorophenol, 3,4-                                  | 95-77-2    | 5.00E-01                        | 1.00E-01            |
| Dichlorophenol, 3,5-                                  | 591-35-5   | 5.00E-01                        | 1.00E-01            |
| Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)       | 94-82-6    | 5.00E-01                        | 1.00E-01            |
| Dichlorophenoxyacetic acid, 2,4- (2,4-D)              | 94-75-7    | 9.00E-01                        | 5.00E-02            |
| Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid) | 120-36-5   | 5.00E-01                        | 1.00E-01            |
| Dichloropropane, 1,2-                                 | 78-87-5    | 7.40E-01                        | 0.00E+00            |
| Dichloropropane, 1,3-                                 | 142-28-9   | 8.00E-01                        | 0.00E+00            |
| Dichloropropane, 2,2-                                 | 594-20-7   | 8.00E-01                        | 0.00E+00            |
| Dichloropropanol, 2,3-                                | 616-23-9   | 5.00E-01                        | 1.00E-01            |
| Dichloropropene, 1,1-                                 | 563-58-6   | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                         | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|---------------------------------------------|------------|---------------------------------|---------------------|
| Dichloropropene, 1,3- (mixed isomers)       | 542-75-6   | 5.50E-01                        | 0.00E+00            |
| Dichloropropene, cis 1,3-                   | 10061-01-5 | 8.00E-01                        | 0.00E+00            |
| Dichloropropene, trans 1,3-                 | 10061-02-6 | 8.00E-01                        | 0.00E+00            |
| Dichlorvos                                  | 62-73-7    | 5.00E-01                        | 1.00E-01            |
| Dicrotophos (bidrin)                        | 141-66-2   | 5.00E-01                        | 1.00E-01            |
| Dicyclopentadiene                           | 77-73-6    | 8.00E-01                        | 0.00E+00            |
| Dieldrin                                    | 60-57-1    | 5.00E-01                        | 1.00E-01            |
| Diethanolamine                              | 111-42-2   | 5.00E-01                        | 1.00E-01            |
| Diethyldithiocarbamate, sodium salt         | 148-18-5   | 0.00E+00                        | 0.00E+00            |
| Diethyl phthalate                           | 84-66-2    | 9.00E-01                        | 1.00E-01            |
| Diethylene glycol                           | 111-46-6   | 5.00E-01                        | 1.00E-01            |
| Diethylene glycol monobutyl ether           | 112-34-5   | 5.00E-01                        | 1.00E-01            |
| Diethylhexyl adipate                        | 103-23-1   | 5.00E-01                        | 1.00E-01            |
| Diethylstilbestrol                          | 56-53-1    | 5.00E-01                        | 1.00E-01            |
| Diisobutylene (trimethyl-1-pentene, 2,4,4-) | 107-39-1   | 8.00E-01                        | 0.00E+00            |
| Diisopropylbenzene, p-                      | 100-18-5   | 5.00E-01                        | 1.00E-01            |
| Diisopropyl ether (2,2'-oxybis-propane)     | 108-20-3   | 8.00E-01                        | 0.00E+00            |
| Dimethenamid                                | 87674-68-8 | 5.00E-01                        | 1.00E-01            |
| Dimethoate                                  | 60-51-5    | 5.00E-01                        | 1.00E-01            |
| Dimethoxybenzidine, 3,3'-                   | 119-90-4   | 5.00E-01                        | 1.00E-01            |
| Dimethyl-2-nitrobenzene, 1,3-               | 81-20-9    | 5.00E-01                        | 1.00E-01            |
| Dimethyl-3-nitrobenzene, 1,2-               | 83-41-0    | 5.00E-01                        | 1.00E-01            |
| Dimethyl-4-nitrobenzene, 1-2-               | 99-51-4    | 5.00E-01                        | 1.00E-01            |
| Dimethyl-5-nitrobenzene, 1,3-               | 99-12-7    | 5.00E-01                        | 1.00E-01            |
| Dimethylphenethylamine, alpha, alpha-       | 122-09-8   | 5.00E-01                        | 1.00E-01            |
| Dimethyl phenol, 2,4-                       | 105-67-9   | 5.00E-01                        | 1.00E-01            |
| Dimethylaminoazobenzene, p-                 | 60-11-7    | 5.00E-01                        | 1.00E-01            |
| Dimethylbenz-a-anthracene, 7,12-            | 57-97-6    | 8.90E-01                        | 1.30E-01            |
| Dimethylbenzidine, 3,3'-                    | 119-93-7   | 5.00E-01                        | 1.00E-01            |
| Dimethylformamide, N,N-                     | 68-12-2    | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                                             | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-----------------------------------------------------------------|------------|---------------------------------|---------------------|
| Dimethylnaphthalene, 1,3-                                       | 575-41-7   | 8.90E-01                        | 1.30E-01            |
| Dimethylphthalate                                               | 131-11-3   | 9.00E-01                        | 1.00E-01            |
| Di-n-butyl phthalate                                            | 84-74-2    | 1.00E+00                        | 1.00E-01            |
| Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)          | 534-52-1   | 1.00E+00                        | 1.00E-01            |
| Dinitrobenzene, 1,3- (dinitrobenzene, 2,4- )                    | 99-65-0    | 6.50E-01                        | 1.00E-01            |
| Dinitrobenzene, 1,4-                                            | 100-25-4   | 5.00E-01                        | 1.00E-01            |
| Dinitrophenol, 2,4-                                             | 51-28-5    | 1.00E+00                        | 1.00E-01            |
| Dinitrophenol, 2,5-                                             | 329-71-5   | 5.00E-01                        | 1.00E-01            |
| Dinitrotoluene, 2,4-                                            | 121-14-2   | 8.50E-01                        | 1.00E-01            |
| Dinitrotoluene, 2,6-                                            | 606-20-2   | 8.50E-01                        | 1.00E-01            |
| Di-n-octyl phthalate                                            | 117-84-0   | 9.00E-01                        | 1.00E-01            |
| Dinoseb                                                         | 88-85-7    | 5.00E-01                        | 1.00E-01            |
| Dioxane 1,4-                                                    | 123-91-1   | 8.00E-01                        | 0.00E+00            |
| Dioxins/furans, polychlorinated; (reported as 2,3,7,8-TCDD TEQ) | 1746-01-6  | 5.00E-01                        | 3.00E-02            |
| Diphenyl ether                                                  | 101-84-8   | 5.00E-01                        | 1.00E-01            |
| Diphenylamine                                                   | 122-39-4   | 5.00E-01                        | 1.00E-01            |
| Diphenylhydrazine, 1,2-                                         | 122-66-7   | 5.00E-01                        | 1.00E-01            |
| Dipropylene glycol                                              | 110-98-5   | 5.00E-01                        | 1.00E-01            |
| Diquat                                                          | 85-00-7    | 5.00E-01                        | 1.00E-01            |
| Disodium iminodiacetate (iminodiacetic acid, disodium salt)     | 142-73-4   | 5.00E-01                        | 1.00E-01            |
| Disulfoton                                                      | 298-04-4   | 5.00E-01                        | 1.00E-01            |
| Diuron                                                          | 330-54-1   | 5.00E-01                        | 1.00E-01            |
| Dodecylphenol, 4-                                               | 104-43-8   | 5.00E-01                        | 1.00E-01            |
| Endosulfan                                                      | 115-29-7   | 5.00E-01                        | 1.00E-01            |
| Endosulfan I                                                    | 959-98-8   | 5.00E-01                        | 1.00E-01            |
| Endosulfan II                                                   | 33213-65-9 | 5.00E-01                        | 1.00E-01            |
| Endosulfan sulfate                                              | 1031-07-8  | 5.00E-01                        | 1.00E-01            |
| Endothall                                                       | 145-73-3   | 5.00E-01                        | 1.00E-01            |
| Endrin                                                          | 72-20-8    | 5.00E-01                        | 1.00E-01            |
| Endrin aldehyde                                                 | 7421-93-4  | 5.00E-01                        | 1.00E-01            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                                   | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-------------------------------------------------------|------------|---------------------------------|---------------------|
| Endrin ketone                                         | 53494-70-5 | 5.00E-01                        | 1.00E-01            |
| Epichlorohydrin                                       | 106-89-8   | 8.00E-01                        | 0.00E+00            |
| EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate) | 2104-64-5  | 5.00E-01                        | 1.00E-01            |
| Esfenvalerate                                         | 66230-04-4 | 5.00E-01                        | 1.00E-01            |
| Ethalfuralin (sonolan)                                | 55283-68-6 | 5.00E-01                        | 1.00E-01            |
| Ethanol                                               | 64-17-5    | 8.00E-01                        | 0.00E+00            |
| Ethanol, 2-amino-                                     | 141-43-5   | 5.00E-01                        | 1.00E-01            |
| Ethanol, 2-(2-aminoethoxy)-                           | 929-06-6   | 5.00E-01                        | 1.00E-01            |
| Ethanol, 2-(2-ethoxyethoxy)-                          | 111-90-0   | 5.00E-01                        | 1.00E-01            |
| Ethanol, 2-(methylamino)-                             | 109-83-1   | 5.00E-01                        | 1.00E-01            |
| Ethion                                                | 563-12-2   | 5.00E-01                        | 1.00E-01            |
| Ethoprop                                              | 13194-48-4 | 5.00E-01                        | 1.00E-01            |
| Ethoxy ethanol, 2-                                    | 110-80-5   | 8.00E-01                        | 0.00E+00            |
| Ethyl acetate                                         | 141-78-6   | 8.00E-01                        | 0.00E+00            |
| Ethyl acrylate                                        | 140-88-5   | 8.00E-01                        | 0.00E+00            |
| Ethyl benzene                                         | 100-41-4   | 9.70E-01                        | 0.00E+00            |
| Ethyl dipropylthiocarbamate, S-                       | 759-94-4   | 5.00E-01                        | 1.00E-01            |
| Ethyl ether                                           | 60-29-7    | 8.00E-01                        | 0.00E+00            |
| Ethyl methacrylate                                    | 97-63-2    | 8.00E-01                        | 0.00E+00            |
| Ethyl methanesulfonate                                | 62-50-0    | 5.00E-01                        | 1.00E-01            |
| Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)      | 637-92-3   | 8.00E-01                        | 0.00E+00            |
| Ethyl-1-hexanol, 2-                                   | 104-76-7   | 5.00E-01                        | 1.00E-01            |
| Ethyl-2-hexenal, 2-                                   | 645-62-5   | 8.00E-01                        | 0.00E+00            |
| Ethyl-2-methyl benzene, 1-                            | 611-14-3   | 9.70E-01                        | 0.00E+00            |
| Ethyl-4-methyl benzene, 1-                            | 622-96-8   | 9.70E-01                        | 0.00E+00            |
| Ethylene*                                             | 74-85-1    | 0.00E+00                        | 0.00E+00            |
| Ethylene dibromide (dibromoethane, 1,2- )             | 106-93-4   | 8.00E-01                        | 0.00E+00            |
| Ethylene glycol                                       | 107-21-1   | 5.00E-01                        | 1.00E-01            |
| Ethylene oxide                                        | 75-21-8    | 8.00E-01                        | 0.00E+00            |
| Ethylene thiourea                                     | 96-45-7    | 5.00E-01                        | 1.00E-01            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                               | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|---------------------------------------------------|------------|---------------------------------|---------------------|
| Ethylenediamine                                   | 107-15-3   | 8.00E-01                        | 0.00E+00            |
| Ethylenimine                                      | 151-56-4   | 8.00E-01                        | 0.00E+00            |
| Ethylhexyl acrylate, 2-                           | 103-11-7   | 5.00E-01                        | 1.00E-01            |
| Famphur                                           | 52-85-7    | 5.00E-01                        | 1.00E-01            |
| Fensulfothion                                     | 115-90-2   | 5.00E-01                        | 1.00E-01            |
| Fenthion                                          | 55-38-9    | 5.00E-01                        | 1.00E-01            |
| Fenuron                                           | 101-42-8   | 5.00E-01                        | 1.00E-01            |
| Fluoranthene                                      | 206-44-0   | 8.90E-01                        | 1.30E-01            |
| Fluorene                                          | 86-73-7    | 8.90E-01                        | 1.30E-01            |
| Fluorine (soluble fluoride)                       | 7782-41-4  | 9.70E-01                        | 1.00E-02            |
| Fluorochloridone                                  | 61213-25-0 | 5.00E-01                        | 1.00E-01            |
| Fonofos                                           | 944-22-9   | 5.00E-01                        | 1.00E-01            |
| Formaldehyde                                      | 50-00-0    | 8.00E-01                        | 0.00E+00            |
| Formic acid                                       | 64-18-6    | 8.00E-01                        | 0.00E+00            |
| Furan                                             | 110-00-9   | 8.00E-01                        | 0.00E+00            |
| Furfural                                          | 98-01-1    | 8.00E-01                        | 0.00E+00            |
| Glycidylaldehyde                                  | 765-34-4   | 8.00E-01                        | 0.00E+00            |
| Glyphosate                                        | 1071-83-6  | 5.00E-01                        | 1.00E-01            |
| Heptachlor                                        | 76-44-8    | 7.20E-01                        | 1.00E-01            |
| Heptachlor epoxide                                | 1024-57-3  | 7.20E-01                        | 1.00E-01            |
| Heptane, n-                                       | 142-82-5   | 8.00E-01                        | 0.00E+00            |
| Heptanoic acid, n-                                | 111-14-8   | 5.00E-01                        | 1.00E-01            |
| Hexachlorobenzene                                 | 118-74-1   | 5.00E-01                        | 1.00E-01            |
| Hexachlorobutadiene                               | 87-68-3    | 5.00E-01                        | 1.00E-01            |
| Hexachlorocyclohexane, alpha (alpha-BHC)          | 319-84-6   | 9.70E-01                        | 4.00E-02            |
| Hexachlorocyclohexane, beta (beta-BHC)            | 319-85-7   | 9.10E-01                        | 4.00E-02            |
| Hexachlorocyclohexane, delta (delta-BHC)          | 319-86-8   | 5.00E-01                        | 4.00E-02            |
| Hexachlorocyclohexane, gamma (lindane; gamma-BHC) | 58-89-9    | 9.70E-01                        | 4.00E-02            |
| Hexachlorocyclohexane, techn (technical-BHC)      | 608-73-1   | 9.70E-01                        | 4.00E-02            |
| Hexachlorocyclopentadiene                         | 77-47-4    | 5.00E-01                        | 1.00E-01            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                            | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|------------------------------------------------|------------|---------------------------------|---------------------|
| Hexachloroethane                               | 67-72-1    | 5.00E-01                        | 1.00E-01            |
| Hexachlorophene                                | 70-30-4    | 5.00E-01                        | 1.00E-01            |
| Hexachloropropylene                            | 1888-71-7  | 5.00E-01                        | 1.00E-01            |
| Hexanal, 2-ethyl-                              | 123-05-7   | 5.00E-01                        | 1.00E-01            |
| Hexane, n-                                     | 110-54-3   | 8.00E-01                        | 0.00E+00            |
| Hexanediamine, 1,6-                            | 124-09-4   | 5.00E-01                        | 1.00E-01            |
| Hexanedinitrile                                | 111-69-3   | 5.00E-01                        | 1.00E-01            |
| Hexanediol, 1,6-                               | 629-11-8   | 5.00E-01                        | 1.00E-01            |
| Hexanoic acid                                  | 142-62-1   | 5.00E-01                        | 1.00E-01            |
| Hexanone, 2-                                   | 591-78-6   | 6.60E-01                        | 0.00E+00            |
| Hexazinone                                     | 51235-04-2 | 5.00E-01                        | 1.00E-01            |
| Hexene, 1-                                     | 592-41-6   | 8.00E-01                        | 0.00E+00            |
| Hexene, cis-2-                                 | 7688-21-3  | 8.00E-01                        | 0.00E+00            |
| Hexylene glycol (2-methyl-2,4-pentanediol)     | 107-41-5   | 5.00E-01                        | 1.00E-01            |
| Hydrazine                                      | 302-01-2   | 8.00E-01                        | 0.00E+00            |
| Hydrocaproic acid, 6- (6-hydroxyhexanoic acid) | 1191-25-9  | 5.00E-01                        | 1.00E-01            |
| Hydrogen chloride (hydrochloric acid)*         | 7647-01-0  | 0.00E+00                        | 0.00E+00            |
| Hydroquinone                                   | 123-31-9   | 5.00E-01                        | 1.00E-01            |
| Indene                                         | 95-13-6    | 8.00E-01                        | 0.00E+00            |
| Indeno-1,2,3-cd-pyrene                         | 193-39-5   | 8.90E-01                        | 1.30E-01            |
| Iron*                                          | 7439-89-6  | 0.00E+00                        | 0.00E+00            |
| Isoamyl alcohol                                | 123-51-3   | 8.00E-01                        | 0.00E+00            |
| Isobutyl alcohol                               | 78-83-1    | 8.00E-01                        | 0.00E+00            |
| Isobutylene (2-methyl-1-propene)               | 115-11-7   | 8.00E-01                        | 0.00E+00            |
| Isobutyric acid (2-methylpropanoic acid)       | 79-31-2    | 5.00E-01                        | 1.00E-01            |
| Isodecanol                                     | 25339-17-7 | 5.00E-01                        | 1.00E-01            |
| Isodrin                                        | 465-73-6   | 5.00E-01                        | 1.00E-01            |
| Isopentane                                     | 78-78-4    | 8.00E-01                        | 0.00E+00            |
| Isophorone                                     | 78-59-1    | 5.00E-01                        | 1.00E-01            |
| Isopropyl acetate                              | 108-21-4   | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                                | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|----------------------------------------------------|------------|---------------------------------|---------------------|
| Isopropyl alcohol                                  | 67-63-0    | 8.00E-01                        | 0.00E+00            |
| Isosafrole                                         | 120-58-1   | 5.00E-01                        | 1.00E-01            |
| Kelthane (dicofol)                                 | 115-32-2   | 5.00E-01                        | 1.00E-01            |
| Kepone (chlordecone)                               | 143-50-0   | 5.00E-01                        | 1.00E-01            |
| Lead (inorganic)                                   | 7439-92-1  | 1.50E-01                        | 1.00E-02            |
| Leptophos                                          | 21609-90-5 | 5.00E-01                        | 1.00E-01            |
| Limonene, d-*                                      | 5989-27-5  | 0.00E+00                        | 0.00E+00            |
| Lithium                                            | 7439-93-2  | 8.00E-01                        | 1.00E-02            |
| Magnesium*                                         | 7439-95-4  | 0.00E+00                        | 0.00E+00            |
| Malathion                                          | 121-75-5   | 5.00E-01                        | 1.00E-01            |
| Maleic anhydride                                   | 108-31-6   | 5.00E-01                        | 1.00E-01            |
| Maleic hydrazide                                   | 123-33-1   | 5.00E-01                        | 1.00E-01            |
| Malononitrile                                      | 109-77-3   | 5.00E-01                        | 1.00E-01            |
| Mancozeb                                           | 8018-01-7  | 5.00E-01                        | 1.00E-01            |
| Manganese                                          | 7439-96-5  | 6.00E-02                        | 1.00E-02            |
| MCPA (4-(chloro-2-methylphenoxy) acetic acid)      | 94-74-6    | 5.00E-01                        | 1.00E-01            |
| MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid) | 93-65-2    | 5.00E-01                        | 1.00E-01            |
| Mercury (pH = 4.9)                                 | 7439-97-6  | 7.00E-02                        | 1.00E-02            |
| Mercury (pH=6.8)                                   | 7439-97-6  | 7.00E-02                        | 1.00E-02            |
| Merphos                                            | 150-50-5   | 5.00E-01                        | 1.00E-01            |
| Methacrylic acid (2-methyl-2-propenoic acid)       | 79-41-4    | 8.00E-01                        | 0.00E+00            |
| Methacrylonitrile                                  | 126-98-7   | 8.00E-01                        | 0.00E+00            |
| Methanol                                           | 67-56-1    | 8.00E-01                        | 0.00E+00            |
| Methapyrilene                                      | 91-80-5    | 5.00E-01                        | 1.00E-01            |
| Methomyl                                           | 16752-77-5 | 5.00E-01                        | 1.00E-01            |
| Methoxychlor                                       | 72-43-5    | 5.00E-01                        | 1.00E-01            |
| Methoxyethanol, 2-                                 | 109-86-4   | 8.00E-01                        | 0.00E+00            |
| Methyl acetate (acetic acid, methyl ester)         | 79-20-9    | 8.00E-01                        | 0.00E+00            |
| Methyl acrylate                                    | 96-33-3    | 8.00E-01                        | 0.00E+00            |
| Methyl amyl ketone (2-heptanone)                   | 110-43-0   | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                           | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-----------------------------------------------|------------|---------------------------------|---------------------|
| Methyl chrysene, 1-                           | 3351-28-8  | 8.90E-01                        | 1.30E-01            |
| Methyl chrysene, 2-                           | 3351-32-4  | 8.90E-01                        | 1.30E-01            |
| Methyl chrysene, 6-                           | 1705-85-7  | 8.90E-01                        | 1.30E-01            |
| Methyl cyclohexane                            | 108-87-2   | 8.00E-01                        | 0.00E+00            |
| Methyl ethyl ketone (2-butanone)              | 78-93-3    | 8.00E-01                        | 0.00E+00            |
| Methyl iodide (iodomethane)                   | 74-88-4    | 8.00E-01                        | 0.00E+00            |
| Methyl isobutyl ketone (4-methyl-2-pentanone) | 108-10-1   | 8.00E-01                        | 0.00E+00            |
| Methyl mercury                                | 22967-92-6 | 9.00E-01                        | 1.00E-02            |
| Methyl methacrylate                           | 80-62-6    | 8.00E-01                        | 0.00E+00            |
| Methyl methanesulfonate                       | 66-27-3    | 5.00E-01                        | 1.00E-01            |
| Methyl parathion                              | 298-00-0   | 5.00E-01                        | 1.00E-01            |
| Methyl-1-butene, 2-                           | 563-46-2   | 8.00E-01                        | 0.00E+00            |
| Methyl-1-propanal, 2- (isobutyraldehyde)      | 78-84-2    | 8.00E-01                        | 0.00E+00            |
| Methyl-2-butene, 2-                           | 513-35-9   | 8.00E-01                        | 0.00E+00            |
| Methyl-2-pentenal, 2-                         | 623-36-9   | 8.00E-01                        | 0.00E+00            |
| Methylcholanthrene, 3-                        | 56-49-5    | 8.90E-01                        | 1.30E-01            |
| Methylene bromide (dibromomethane)            | 74-95-3    | 8.00E-01                        | 0.00E+00            |
| Methylene chloride (dichloromethane)          | 75-09-2    | 9.50E-01                        | 0.00E+00            |
| Methylene-bis (2-chloroaniline) 4,4'-         | 101-14-4   | 5.00E-01                        | 1.00E-01            |
| Methylmercury hydroxide                       | 1184-57-2  | 5.00E-01                        | 1.00E-01            |
| Methylnaphthalene, 1-                         | 90-12-0    | 8.90E-01                        | 1.30E-01            |
| Methylnaphthalene, 2-                         | 91-57-6    | 8.90E-01                        | 1.30E-01            |
| Methylpyrrolidone, N-                         | 872-50-4   | 5.00E-01                        | 1.00E-01            |
| Methylstyrene, alpha-                         | 98-83-9    | 8.00E-01                        | 0.00E+00            |
| Methyltetrahydrofuran, 2-                     | 96-47-9    | 8.00E-01                        | 0.00E+00            |
| Methyltetrahydropyran, 2-                     | 10141-72-7 | 8.00E-01                        | 0.00E+00            |
| Metolachlor                                   | 51218-45-2 | 5.00E-01                        | 1.00E-01            |
| Metribuzin                                    | 21087-64-9 | 5.00E-01                        | 1.00E-01            |
| Mirex                                         | 2385-85-5  | 5.00E-01                        | 1.00E-01            |
| Molinate                                      | 2212-67-1  | 5.00E-01                        | 1.00E-01            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern            | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|--------------------------------|------------|---------------------------------|---------------------|
| Molybdenum                     | 7439-98-7  | 3.80E-01                        | 1.00E-02            |
| Monocrotophos                  | 2157-98-4  | 5.00E-01                        | 1.00E-01            |
| Morpholine                     | 110-91-8   | 8.00E-01                        | 0.00E+00            |
| Morpholine, N-butyl-           | 1005-67-0  | 5.00E-01                        | 1.00E-01            |
| MTBE (methyl tert-butyl ether) | 1634-04-4  | 8.00E-01                        | 0.00E+00            |
| Naled                          | 300-76-5   | 5.00E-01                        | 1.00E-01            |
| Naphthalene                    | 91-20-3    | 8.90E-01                        | 1.30E-01            |
| Naphthoquinone, 1,4-           | 130-15-4   | 5.00E-01                        | 1.00E-01            |
| Naphthylamine, 1-              | 134-32-7   | 5.00E-01                        | 1.00E-01            |
| Naphthylamine, 2-              | 91-59-8    | 5.00E-01                        | 1.00E-01            |
| Napropamide                    | 15299-99-7 | 5.00E-01                        | 1.00E-01            |
| Neopentyl glycol               | 126-30-7   | 5.00E-01                        | 1.00E-01            |
| Nickel and compounds           | 7440-02-0  | 4.00E-02                        | 1.00E-02            |
| Nitrate-N                      | 14797-55-8 | 5.00E-01                        | 1.00E-02            |
| Nitrite-N                      | 14797-65-0 | 5.00E-01                        | 1.00E-02            |
| Nitroaniline, 2-               | 88-74-4    | 5.00E-01                        | 1.00E-01            |
| Nitroaniline, 3-               | 99-09-2    | 5.00E-01                        | 1.00E-01            |
| Nitroaniline, 4-               | 100-01-6   | 5.00E-01                        | 1.00E-01            |
| Nitrobenzene                   | 98-95-3    | 9.70E-01                        | 1.00E-01            |
| Nitroglycerin                  | 55-63-0    | 5.00E-01                        | 1.00E-01            |
| Nitrophenol, 2-                | 88-75-5    | 5.00E-01                        | 1.00E-01            |
| Nitrophenol, 3-                | 554-84-7   | 5.00E-01                        | 1.00E-01            |
| Nitrophenol, 4-                | 100-02-7   | 1.00E+00                        | 1.00E-01            |
| Nitropropane, 2-               | 79-46-9    | 8.00E-01                        | 0.00E+00            |
| Nitroquinoline-N-oxide, 4-     | 56-57-5    | 5.00E-01                        | 1.00E-01            |
| Nitrosodiethanolamine          | 1116-54-7  | 5.00E-01                        | 1.00E-01            |
| Nitrosodiethylamine, n-        | 55-18-5    | 8.00E-01                        | 0.00E+00            |
| Nitrosodimethylamine, n-       | 62-75-9    | 8.00E-01                        | 0.00E+00            |
| Nitrosodi-n-butylamine, n-     | 924-16-3   | 5.00E-01                        | 1.00E-01            |
| Nitrosodi-n-propylamine, n-    | 621-64-7   | 2.50E-01                        | 1.00E-01            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                 | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-------------------------------------|------------|---------------------------------|---------------------|
| Nitrosodiphenylamine                | 86-30-6    | 2.50E-01                        | 1.00E-01            |
| Nitroso-methyl-ethyl-amine, n-      | 10595-95-6 | 8.00E-01                        | 0.00E+00            |
| Nitrosomorpholine, N-               | 59-89-2    | 5.00E-01                        | 1.00E-01            |
| Nitroso-n-ethylurea, n-             | 759-73-9   | 5.00E-01                        | 1.00E-01            |
| Nitrosopiperidine, N-               | 100-75-4   | 5.00E-01                        | 1.00E-01            |
| Nitrosopyrrolidine, n-              | 930-55-2   | 5.00E-01                        | 1.00E-01            |
| Nitrotoluene, m-                    | 99-08-1    | 5.00E-01                        | 1.00E-01            |
| Nitrotoluene, o-                    | 88-72-2    | 5.00E-01                        | 1.00E-01            |
| Nitrotoluene, p-                    | 99-99-0    | 5.00E-01                        | 1.00E-01            |
| Nonachlor, cis-                     | 5103-73-1  | 5.00E-01                        | 1.00E-01            |
| Nonachlor, trans-                   | 39765-80-5 | 5.00E-01                        | 1.00E-01            |
| Nonanal                             | 124-19-6   | 5.00E-01                        | 1.00E-01            |
| Nonene, 1-n                         | 124-11-8   | 8.00E-01                        | 0.00E+00            |
| Nonylphenol, 4-n-                   | 104-40-5   | 5.00E-01                        | 1.00E-01            |
| Nonylphenol ethoxylate              | 9016-45-9  | 5.00E-01                        | 1.00E-01            |
| Octamethylpyrophosphoramidate       | 152-16-9   | 5.00E-01                        | 1.00E-01            |
| Octanone                            | 106-68-3   | 8.00E-01                        | 0.00E+00            |
| Oxamyl                              | 23135-22-0 | 5.00E-01                        | 1.00E-01            |
| Oxychlorane                         | 27304-13-8 | 5.00E-01                        | 1.00E-01            |
| Paraquat                            | 1910-42-5  | 5.00E-01                        | 1.00E-01            |
| Parathion (ethyl parathion)         | 56-38-2    | 5.00E-01                        | 1.00E-01            |
| Pebulate                            | 1114-71-2  | 5.00E-01                        | 1.00E-01            |
| Pendimethalin                       | 40487-42-1 | 5.00E-01                        | 1.00E-01            |
| Pentachlorobenzene                  | 608-93-5   | 5.00E-01                        | 1.00E-01            |
| Pentachloroethane                   | 76-01-7    | 8.00E-01                        | 0.00E+00            |
| Pentachloronitrobenzene             | 82-68-8    | 5.00E-01                        | 1.00E-01            |
| Pentachlorophenol                   | 87-86-5    | 7.60E-01                        | 2.50E-01            |
| Pentadiene, 1,3-cis-                | 1574-41-0  | 8.00E-01                        | 0.00E+00            |
| Pentadiene, 1,3-trans-              | 2004-70-8  | 8.00E-01                        | 0.00E+00            |
| Pentaerythritol tetranitrate (PETN) | 78-11-5    | 5.00E-01                        | 1.00E-01            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                                                              | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|----------------------------------------------------------------------------------|------------|---------------------------------|---------------------|
| Pentane                                                                          | 109-66-0   | 8.00E-01                        | 0.00E+00            |
| Pentane, 2-methyl-                                                               | 107-83-5   | 8.00E-01                        | 0.00E+00            |
| Pentane, 3-methyl-                                                               | 96-14-0    | 8.00E-01                        | 0.00E+00            |
| Pentanediol, 1,5-                                                                | 111-29-5   | 5.00E-01                        | 1.00E-01            |
| Pentanol, 1-                                                                     | 71-41-0    | 5.00E-01                        | 0.00E+00            |
| Pentanol, 4-methyl-2-                                                            | 108-11-2   | 8.00E-01                        | 0.00E+00            |
| Pentanone, 2-                                                                    | 107-87-9   | 8.00E-01                        | 0.00E+00            |
| Pentene, 2-                                                                      | 109-68-2   | 8.00E-01                        | 0.00E+00            |
| Pentyne, 1-                                                                      | 627-19-0   | 8.00E-01                        | 0.00E+00            |
| Perchlorate                                                                      | 14797-73-0 | 2.00E-01                        | 1.00E-02            |
| Perfluorooctane sulfonic acid (1-Octanesulfonic acid, heptadecafluoro-1-) [PFOS] | 1763-23-1  | 5.00E-01                        | 1.00E-01            |
| Perfluoroundecanoic acid (Undecanoic acid, uncosafluoro-) [PFUnDa]               | 2058-94-8  | 5.00E-01                        | 1.00E-01            |
| Perfluoropentanoic acid (Pentanoic acid, nonafluoro-) [PFPeA]                    | 2706-90-3  | 5.00E-01                        | 1.00E-01            |
| Perfluorohexanoic acid (Hexanoic acid, undecafluoro-) [PFHxA]                    | 307-24-4   | 5.00E-01                        | 1.00E-01            |
| Perfluorododecanoic acid (Dodecanoic acid, tricoxafluoro-) [PFDoA]               | 307-55-1   | 5.00E-01                        | 1.00E-01            |
| Perfluorooctanoic acid (Octanoic acid, pentadecafluoro-) [PFOA]                  | 335-67-1   | 5.00E-01                        | 1.00E-01            |
| Perfluorodecanoic acid (Decanoic acid, nonadecafluoro-) [PFDA]                   | 335-76-2   | 5.00E-01                        | 1.00E-01            |
| Perfluorodecane sulfonic acid (1-Decanesulfonic acid, heneicosafluoro-) [PFDS]   | 335-77-3   | 5.00E-01                        | 1.00E-01            |
| Perfluorohexane sulfonic acid (1-Hexanesulfonic acid, tridecafluoro-) [PFHxS]    | 355-46-4   | 5.00E-01                        | 1.00E-01            |
| Perfluorobutyric acid (Butanoic acid, heptafluoro-) [PFBA]                       | 375-22-4   | 5.00E-01                        | 1.00E-01            |
| Perfluorobutane sulfonic acid (1-Butanesulfonic acid, nonafluoro-) [PFBS]        | 375-73-5   | 5.00E-01                        | 1.00E-01            |
| Perfluoroheptanoic acid (Heptanoic acid, tridecafluoro-) [PFHpA]                 | 375-85-9   | 5.00E-01                        | 1.00E-01            |
| Perfluorononanoic acid (Nonanoic acid, heptadecafluoro-) [PFNA]                  | 375-95-1   | 5.00E-01                        | 1.00E-01            |
| Perfluorotetradecanoic acid (Tetradecanoic acid, heptacosafuoro-) [PFTeDA]       | 376-06-7   | 5.00E-01                        | 1.00E-01            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                                                         | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-----------------------------------------------------------------------------|------------|---------------------------------|---------------------|
| Perfluorotridecanoic acid (Tridecanoic acid, pentacosafuoro-) [PFTrDA]      | 72629-94-8 | 5.00E-01                        | 1.00E-01            |
| Perfluorooctane sulfonamide (1-Octanesulfonamide, heptadecafluoro-) [PFOSA] | 754-91-6   | 5.00E-01                        | 1.00E-01            |
| Perylene                                                                    | 198-55-0   | 5.00E-01                        | 1.00E-01            |
| Phenacetin                                                                  | 62-44-2    | 5.00E-01                        | 1.00E-01            |
| Phenanthrene                                                                | 85-01-8    | 8.90E-01                        | 1.30E-01            |
| Phenanthridine                                                              | 229-87-8   | 5.00E-01                        | 1.00E-01            |
| Phenol                                                                      | 108-95-2   | 9.00E-01                        | 1.00E-01            |
| Phenol, 4-tert-butyl-                                                       | 98-54-4    | 5.00E-01                        | 1.00E-01            |
| Phenothiazine                                                               | 92-84-2    | 5.00E-01                        | 1.00E-01            |
| Phenyl mercuric acetate                                                     | 62-38-4    | 5.00E-01                        | 1.00E-01            |
| Phenylene diamine, m-                                                       | 108-45-2   | 5.00E-01                        | 1.00E-01            |
| Phenylene diamine, p-                                                       | 106-50-3   | 5.00E-01                        | 1.00E-01            |
| Phorate                                                                     | 298-02-2   | 5.00E-01                        | 1.00E-01            |
| Phosalone                                                                   | 2310-17-0  | 5.00E-01                        | 1.00E-01            |
| Phosdrin (mevinphos)                                                        | 7786-34-7  | 5.00E-01                        | 1.00E-01            |
| Phosmet                                                                     | 732-11-6   | 5.00E-01                        | 1.00E-01            |
| Phosphine                                                                   | 7803-51-2  | 2.00E-01                        | 1.00E-02            |
| Phosphorotrithioic acid, S,S,S-tributyl ester                               | 78-48-8    | 5.00E-01                        | 1.00E-01            |
| Phosphorus, total*                                                          | 7723-14-0  | 0.00E+00                        | 0.00E+00            |
| Phosphorus, white                                                           | 7723-14-0  | 2.00E-01                        | 1.00E-02            |
| Phthalic anhydride                                                          | 85-44-9    | 5.00E-01                        | 1.00E-01            |
| Picloram                                                                    | 1918-02-1  | 5.00E-01                        | 1.00E-01            |
| Picoline, 2- (2-methylpyridine)                                             | 109-06-8   | 8.00E-01                        | 0.00E+00            |
| Polybrominated biphenyls (PBBs)                                             | 67774-32-7 | 9.30E-01                        | 1.00E-01            |
| Polychlorinated biphenyls (PCBs)                                            | 1336-36-3  | 8.10E-01                        | 1.40E-01            |
| Potassium*                                                                  | 7440-09-7  | 0.00E+00                        | 0.00E+00            |
| Primene                                                                     | 68955-53-3 | 5.00E-01                        | 1.00E-01            |
| Prometon (pramitol)                                                         | 1610-18-0  | 5.00E-01                        | 1.00E-01            |
| Prometryn                                                                   | 7287-19-6  | 5.00E-01                        | 1.00E-01            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern               | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-----------------------------------|------------|---------------------------------|---------------------|
| Pronamide                         | 23950-58-5 | 5.00E-01                        | 1.00E-01            |
| Propanal (propionaldehyde)        | 123-38-6   | 8.00E-01                        | 0.00E+00            |
| Propane, 1-bromo-                 | 106-94-5   | 8.00E-01                        | 0.00E+00            |
| Propanil                          | 709-98-8   | 5.00E-01                        | 1.00E-01            |
| Propanoic acid (propionic acid)   | 79-09-4    | 8.00E-01                        | 0.00E+00            |
| Propanol, 1-                      | 71-23-8    | 8.00E-01                        | 0.00E+00            |
| Propargite                        | 2312-35-8  | 5.00E-01                        | 1.00E-01            |
| Propargyl alcohol                 | 107-19-7   | 8.00E-01                        | 0.00E+00            |
| Propazine                         | 139-40-2   | 5.00E-01                        | 1.00E-01            |
| Propham                           | 122-42-9   | 5.00E-01                        | 1.00E-01            |
| Propionitrile (propane nitrile)   | 107-12-0   | 8.00E-01                        | 0.00E+00            |
| Propyl acetate, n-                | 109-60-4   | 8.00E-01                        | 0.00E+00            |
| Propylbenzene, n-                 | 103-65-1   | 8.00E-01                        | 0.00E+00            |
| Propylene glycol                  | 57-55-6    | 5.00E-01                        | 1.00E-01            |
| Propylene glycol monomethyl ether | 107-98-2   | 8.00E-01                        | 0.00E+00            |
| Propylene oxide                   | 75-56-9    | 8.00E-01                        | 0.00E+00            |
| Propylene tetramer                | 6842-15-5  | 5.00E-01                        | 1.00E-01            |
| Prothiofos (Tokuthion)            | 34643-46-4 | 5.00E-01                        | 1.00E-01            |
| Pyrene                            | 129-00-0   | 8.90E-01                        | 1.30E-01            |
| Pyridine                          | 110-86-1   | 8.00E-01                        | 0.00E+00            |
| Quinoline                         | 91-22-5    | 5.00E-01                        | 1.00E-01            |
| Ronnel                            | 299-84-3   | 5.00E-01                        | 1.00E-01            |
| Safrole                           | 94-59-7    | 5.00E-01                        | 1.00E-01            |
| Selenium                          | 7782-49-2  | 5.00E-01                        | 1.00E-02            |
| Selenourea                        | 630-10-4   | 0.00E+00                        | 0.00E+00            |
| Silver                            | 7440-22-4  | 4.00E-02                        | 1.00E-02            |
| Simazine                          | 122-34-9   | 5.00E-01                        | 1.00E-01            |
| Sodium*                           | 7440-23-5  | 0.00E+00                        | 0.00E+00            |
| Sodium hypochlorite               | 7681-52-9  | 2.00E-01                        | 1.00E-02            |
| Sodium polyacrylate               | 9003-04-7  | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                       | CAS         | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-------------------------------------------|-------------|---------------------------------|---------------------|
| Strontium                                 | 7440-24-6   | 2.00E-01                        | 1.00E-02            |
| Strychnine                                | 57-24-9     | 5.00E-01                        | 1.00E-01            |
| Styrene                                   | 100-42-5    | 8.00E-01                        | 0.00E+00            |
| Sulfate*                                  | 14808-79-8  | 0.00E+00                        | 0.00E+00            |
| Sulfide*                                  | 18496-25-8  | 0.00E+00                        | 0.00E+00            |
| Sulfolane                                 | 126-33-0    | 5.00E-01                        | 1.00E-01            |
| Sulfur*                                   | 7704-34-9   | 0.00E+00                        | 0.00E+00            |
| Sulprofos (Bolstar)                       | 35400-43-2  | 5.00E-01                        | 1.00E-01            |
| Tebuconazole                              | 107534-96-3 | 5.00E-01                        | 1.00E-01            |
| Tebuthiuron                               | 34014-18-1  | 5.00E-01                        | 1.00E-01            |
| Terbufos                                  | 13071-79-9  | 5.00E-01                        | 1.00E-01            |
| Tert-amyl ethyl ether (TAEE)              | 919-94-8    | 8.00E-01                        | 0.00E+00            |
| Tert-amyl-methyl ether (TAME)             | 994-05-8    | 8.00E-01                        | 0.00E+00            |
| Tert-butyl alcohol (2-methyl-2-propanol)  | 75-65-0     | 8.00E-01                        | 0.00E+00            |
| Tetrachlorobenzene, 1,2,3,4-              | 634-66-2    | 5.00E-01                        | 1.00E-01            |
| Tetrachlorobenzene, 1,2,3,5-              | 634-90-2    | 5.00E-01                        | 1.00E-01            |
| Tetrachlorobenzene, 1,2,4,5-              | 95-94-3     | 5.00E-01                        | 1.00E-01            |
| Tetrachloroethane, 1,1,1,2-               | 630-20-6    | 8.00E-01                        | 0.00E+00            |
| Tetrachloroethane, 1,1,2,2-               | 79-34-5     | 7.00E-01                        | 0.00E+00            |
| Tetrachloroethylene (PCE)                 | 127-18-4    | 1.00E+00                        | 0.00E+00            |
| Tetrachlorophenol, 2,3,4,5-               | 4901-51-3   | 5.00E-01                        | 1.00E-01            |
| Tetrachlorophenol, 2,3,4,6-               | 58-90-2     | 5.00E-01                        | 1.00E-01            |
| Tetrachlorophenol, 2,3,5,6-               | 935-95-5    | 5.00E-01                        | 1.00E-01            |
| Tetrachlorvinphos (Stiropfos)             | 22248-79-9  | 5.00E-01                        | 1.00E-01            |
| Tetradifon                                | 116-29-0    | 5.00E-01                        | 1.00E-01            |
| Tetraethyl dithiopyrophosphate (sulfotep) | 3689-24-5   | 5.00E-01                        | 1.00E-01            |
| Tetraethyl lead                           | 78-00-2     | 5.00E-01                        | 1.00E-01            |
| Tetraethyl pyrophosphate (TEPP)           | 107-49-3    | 5.00E-01                        | 1.00E-01            |
| Tetraethylene glycol                      | 112-60-7    | 5.00E-01                        | 1.00E-01            |
| Tetrahydrofuran                           | 109-99-9    | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                     | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-----------------------------------------|------------|---------------------------------|---------------------|
| Tetrahydropyran                         | 142-68-7   | 8.00E-01                        | 0.00E+00            |
| Tetraoxadodecane, 2,5,8,11-             | 112-49-2   | 5.00E-01                        | 1.00E-01            |
| Thallium                                | 7440-28-0  | 1.00E+00                        | 1.00E-02            |
| Thiofanox                               | 39196-18-4 | 5.00E-01                        | 1.00E-01            |
| Thionazin                               | 297-97-2   | 5.00E-01                        | 1.00E-01            |
| Thiophanate-methyl                      | 23564-05-8 | 5.00E-01                        | 1.00E-01            |
| Thiram                                  | 137-26-8   | 5.00E-01                        | 1.00E-01            |
| Tin                                     | 7440-31-5  | 1.00E-01                        | 1.00E-02            |
| Titanium                                | 7440-32-6  | 3.00E-02                        | 1.00E-02            |
| Toluene                                 | 108-88-3   | 8.00E-01                        | 0.00E+00            |
| Toluene diisocyanate, 2,4/2,6-          | 26471-62-5 | 5.00E-01                        | 1.00E-01            |
| Toluenediamine, 2,4-                    | 95-80-7    | 5.00E-01                        | 1.00E-01            |
| Toluenediamine, 2,6-                    | 823-40-5   | 5.00E-01                        | 1.00E-01            |
| Toluidine, o-                           | 95-53-4    | 5.00E-01                        | 1.00E-01            |
| Toluidine, p-                           | 106-49-0   | 5.00E-01                        | 1.00E-01            |
| Toxaphene                               | 8001-35-2  | 5.00E-01                        | 1.00E-01            |
| TPH, TX1005, C6-C12                     | NA         | 8.00E-01                        | 0.00E+00            |
| TPH, TX1005, >C12-C28                   | NA         | 5.00E-01                        | 1.00E-01            |
| TPH, TX1005, >C12-C35                   | NA         | 5.00E-01                        | 1.00E-01            |
| TPH, TX1005, >C28-C35                   | NA         | 5.00E-01                        | 1.00E-01            |
| TP Silvex, 2,4,5-                       | 93-72-1    | 5.00E-01                        | 1.00E-01            |
| Triademenol                             | 55219-65-3 | 5.00E-01                        | 1.00E-01            |
| Triallate                               | 2303-17-5  | 5.00E-01                        | 1.00E-01            |
| Triaminotrinitrobenzene (TATB)          | 3058-38-6  | 5.00E-01                        | 1.00E-01            |
| Tributyltin oxide                       | 56-35-9    | 5.00E-01                        | 1.00E-01            |
| Trichloro-1,2,2-trifluoroethane, 1,1,2- | 76-13-1    | 8.00E-01                        | 0.00E+00            |
| Trichlorobenzene, 1,2,3-                | 87-61-6    | 5.00E-01                        | 1.00E-01            |
| Trichlorobenzene, 1,2,4-                | 120-82-1   | 9.70E-01                        | 1.00E-01            |
| Trichlorobenzene, 1,3,5-                | 108-70-3   | 5.00E-01                        | 1.00E-01            |
| Trichloroethane, 1,1,1-                 | 71-55-6    | 9.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                               | CAS        | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|---------------------------------------------------|------------|---------------------------------|---------------------|
| Trichloroethane, 1,1,2-                           | 79-00-5    | 8.10E-01                        | 0.00E+00            |
| Trichloroethylene (TCE)                           | 79-01-6    | 1.00E+00                        | 0.00E+00            |
| Trichlorofluoromethane                            | 75-69-4    | 2.30E-01                        | 0.00E+00            |
| Trichloronate                                     | 327-98-0   | 5.00E-01                        | 1.00E-01            |
| Trichlorophenol, 2,3,4-                           | 15950-66-0 | 5.00E-01                        | 1.00E-01            |
| Trichlorophenol, 2,3,5-                           | 933-78-8   | 5.00E-01                        | 1.00E-01            |
| Trichlorophenol, 2,3,6-                           | 933-75-5   | 5.00E-01                        | 1.00E-01            |
| Trichlorophenol, 2,4,5-                           | 95-95-4    | 5.00E-01                        | 1.00E-01            |
| Trichlorophenol, 2,4,6-                           | 88-06-2    | 5.00E-01                        | 1.00E-01            |
| Trichlorophenol, 3,4,5-                           | 609-19-8   | 5.00E-01                        | 1.00E-01            |
| Trichlorophenoxyacetic acid, 2,4,5-               | 93-76-5    | 5.00E-01                        | 1.00E-01            |
| Trichloropropane, 1,1,2-                          | 598-77-6   | 8.00E-01                        | 0.00E+00            |
| Trichloropropane, 1,2,3-                          | 96-18-4    | 8.00E-01                        | 0.00E+00            |
| Triethanolamine                                   | 102-71-6   | 5.00E-01                        | 1.00E-01            |
| Triethylamine                                     | 121-44-8   | 8.00E-01                        | 0.00E+00            |
| Triethylene glycol                                | 112-27-6   | 5.00E-01                        | 1.00E-01            |
| Triethylphosphorothioate, O, O, O-                | 126-68-1   | 5.00E-01                        | 1.00E-01            |
| Trifluralin                                       | 1582-09-8  | 5.00E-01                        | 1.00E-01            |
| Trimethylamine                                    | 75-50-3    | 8.00E-01                        | 0.00E+00            |
| Trimethylbenzene, 1,2,3-                          | 526-73-8   | 9.70E-01                        | 0.00E+00            |
| Trimethylbenzene, 1,2,4-                          | 95-63-6    | 8.00E-01                        | 0.00E+00            |
| Trimethylbenzene, 1,3,5-                          | 108-67-8   | 8.00E-01                        | 0.00E+00            |
| Trinitrobenzene, 1,3,5-                           | 99-35-4    | 6.50E-01                        | 1.00E-01            |
| Trinitrophenylmethylnitramine (tetryl; nitramine) | 479-45-8   | 5.00E-01                        | 1.00E-01            |
| Trinitrotoluene, 2,4,6-                           | 118-96-7   | 6.00E-01                        | 1.00E-01            |
| Tungsten (as sodium tungstate dihydride)          | 7440-33-7  | 2.00E-01                        | 1.00E-01            |
| Uranium (soluble salts)                           | 7440-61-1  | 8.50E-01                        | 1.00E-02            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern                                                   | CAS       | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|-----------------------------------------------------------------------|-----------|---------------------------------|---------------------|
| Valeric acid (pentanoic acid)                                         | 109-52-4  | 5.00E-01                        | 1.00E-01            |
| Vanadium                                                              | 7440-62-2 | 2.60E-02                        | 1.00E-02            |
| Vernam                                                                | 1929-77-7 | 5.00E-01                        | 1.00E-01            |
| Vinyl acetate                                                         | 108-05-4  | 6.50E-01                        | 0.00E+00            |
| Vinyl chloride                                                        | 75-01-4   | 1.00E+00                        | 0.00E+00            |
| Vinylcyclohexane                                                      | 695-12-5  | 8.00E-01                        | 0.00E+00            |
| Warfarin                                                              | 81-81-2   | 5.00E-01                        | 1.00E-01            |
| Xylene, m-                                                            | 108-38-3  | 8.00E-01                        | 0.00E+00            |
| Xylene, o-                                                            | 95-47-6   | 8.00E-01                        | 0.00E+00            |
| Xylene, p-                                                            | 106-42-3  | 8.00E-01                        | 0.00E+00            |
| Xylenes                                                               | 1330-20-7 | 9.20E-01                        | 0.00E+00            |
| Zinc                                                                  | 7440-66-6 | 2.00E-01                        | 1.00E-02            |
| 6 C aliphatics (TPH) (>53% n-hexane content)                          | NA        | 8.00E-01                        | 0.00E+00            |
| 6 C aliphatics (TPH) (<53% n-hexane content)                          | NA        | 8.00E-01                        | 0.00E+00            |
| >6-8 C aliphatics (TPH) (>53% n-hexane content)                       | NA        | 8.00E-01                        | 0.00E+00            |
| >6-8 C aliphatics (TPH) (<53% n-hexane content)                       | NA        | 8.00E-01                        | 0.00E+00            |
| >8-10 C aliphatics (TPH)                                              | NA        | 8.00E-01                        | 0.00E+00            |
| >10-12 C aliphatics (TPH)                                             | NA        | 5.00E-01                        | 1.00E-01            |
| >12-16 C aliphatics (TPH)                                             | NA        | 5.00E-01                        | 1.00E-01            |
| >16-21 C aliphatics (TPH)                                             | NA        | 5.00E-01                        | 1.00E-01            |
| >16-21 C aliphatics (TPH) (for transformer mineral oil releases only) | NA        | 5.00E-01                        | 1.00E-01            |
| >21-35 C aliphatics (TPH)                                             | NA        | 5.00E-01                        | 1.00E-01            |
| >21-35 C aliphatics (TPH) (for transformer mineral oil releases only) | NA        | 5.00E-01                        | 1.00E-01            |
| >7-8 C aromatics (TPH)                                                | NA        | 8.00E-01                        | 0.00E+00            |

# ABS<sub>GI</sub> and ABS.d Values

Last Revised: March 1, 2022

| Chemical of Concern      | CAS | ABS <sub>GI</sub><br>(unitless) | ABS.d<br>(unitless) |
|--------------------------|-----|---------------------------------|---------------------|
| >8-10 C aromatics (TPH)  | NA  | 8.00E-01                        | 0.00E+00            |
| >10-12 C aromatics (TPH) | NA  | 5.00E-01                        | 1.00E-01            |
| >12-16 C aromatics (TPH) | NA  | 5.00E-01                        | 1.00E-01            |
| >16-21 C aromatics (TPH) | NA  | 5.00E-01                        | 1.00E-01            |
| >21-35 C aromatics (TPH) | NA  | 5.00E-01                        | 1.00E-01            |

## Footnotes

\*Acetic acid; Ammonium polyphosphate; Ammonium salts; Calcium; Chloride; Ethylene; Hydrogen chloride (hydrochloric acid); Iron; Limonene, d-; Magnesium; Phosphorus, total; Potassium; Sodium; Sulfate; Sulfide; Sulfur. These compounds are not necessarily of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at <http://www.tceq.texas.gov/remediation/trrp/trrppcls.html>.

This table show gastrointestinal and dermal absorption values used in calculating protective concentration levels.

end of worksheet

# Toxicity Factor changes for 2011 PCL table update

| Chemical of Concern            | CAS        | Class <sup>1</sup> | Ref <sup>2</sup> | SFo<br>(mg/kg-<br>day) <sup>-1</sup> | Ref <sup>2</sup> | RfD<br>(mg/k<br>g-day) | Ref <sup>2</sup> | URF<br>(ug/m3) <sup>-1</sup> | Ref <sup>2</sup> | RfC <sup>3</sup><br>(mg/m <sup>3</sup> ) | Ref <sup>2</sup> |
|--------------------------------|------------|--------------------|------------------|--------------------------------------|------------------|------------------------|------------------|------------------------------|------------------|------------------------------------------|------------------|
| Acetate, 2-ethoxyethanol       | 111-15-9   | —                  | —                | —                                    | —                | 0.1                    | PPRTV            | —                            | —                | 0.06                                     | PPRTV            |
| Acetate, isoamyl               | 123-92-2   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Acetate, isobutyl              | 110-19-0   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Acetate, sec-butyl             | 105-46-4   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Acetone (2-propanone)          | 67-64-1    | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | 31                                       | A                |
| Acetophenone                   | 98-86-2    | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Acifluorfen, sodium            | 62476-59-9 | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Acrolein                       | 107-02-8   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | 0.0005                                   | T                |
| Acrylamide                     | 79-06-1    | LC                 | —                | —                                    | —                | —                      | —                | —                            | —                | —                                        | —                |
| Adipic acid (hexanedioic acid) | 124-04-9   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Allyl alcohol                  | 107-18-6   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | 0.0001                                   | —                |
| Aluminum                       | 7429-90-5  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | 0.005                                    | PPRTV            |
| Amino-2,6-dinitrotoluene, 4-   | 19406-51-0 | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Amino-4,6-dinitrotoluene, 2-   | 35572-78-2 | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Aminopyridine, 4-              | 504-24-5   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Anthraquinone, 9,10-           | 84-65-1    | LC                 | PPRTV            | 0.039                                | PPRTV            | —                      | —                | —                            | —                | —                                        | —                |
| Antimony                       | 7440-36-0  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Asbestos                       | 1332-21-4  | —                  | —                | —                                    | —                | —                      | —                | URF removed                  | —                | —                                        | —                |
| Atrazine                       | 1912-24-9  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Barium                         | 7440-39-3  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Benzaldehyde                   | 100-52-7   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Benzene                        | 71-43-2    | —                  | —                | 0.015                                | T                | —                      | —                | —                            | —                | -                                        | —                |
| Benzenethiol                   | 108-98-5   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Benzoic acid                   | 65-85-0    | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Benzotrichloride               | 98-07-7    | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Benzoyl peroxide               | 94-36-0    | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Benzyl alcohol                 | 100-51-6   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Benzyl dichloride              | 98-87-3    | —                  | —                | —                                    | —                | 0.002                  | T                | —                            | —                | 0.001                                    | T                |



# Toxicity Factor changes for 2011 PCL table update

| Chemical of Concern                              | CAS        | Class <sup>1</sup> | Ref <sup>2</sup> | SFo<br>(mg/kg-<br>day) <sup>-1</sup> | Ref <sup>2</sup> | RfD<br>(mg/k<br>g-day) | Ref <sup>2</sup> | URF<br>(ug/m3) <sup>-1</sup> | Ref <sup>2</sup> | RfC <sup>3</sup><br>(mg/m <sup>3</sup> ) | Ref <sup>2</sup> |
|--------------------------------------------------|------------|--------------------|------------------|--------------------------------------|------------------|------------------------|------------------|------------------------------|------------------|------------------------------------------|------------------|
| Chlorobromomethane                               | 74-97-5    | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Chloroethanol, 2-                                | 107-07-3   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Chloronitrobenzene, p- (1-chloro-4-nitrobenzene) | 100-00-5   | LC                 | PPRTV            | —                                    | —                | —                      | —                | —                            | —                | —                                        | —                |
| Chlorophenol, 2-                                 | 95-57-8    | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Chlorophenol, 3-                                 | 108-43-0   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Chlorophenol, 4-                                 | 106-48-9   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Chlorotoluene, o- (2-chlorotoluene)              | 95-49-8    | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | 0.8                                      | PPRTV            |
| Chlorotoluene, p- (4-chlorotoluene)              | 106-43-4   | —                  | —                | —                                    | —                | 0.02                   | PPRTV            | —                            | —                | delete value                             | —                |
| Chlorpyrifos                                     | 2921-88-2  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Cobalt                                           | 7440-48-4  | LC                 | PPRTV            | —                                    | —                | —                      | —                | —                            | —                | —                                        | —                |
| Copolymer acrylamide                             | 69418-26-4 | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Copper                                           | 7440-50-8  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Cresol                                           | 1319-77-3  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Cresol, m- (3-methylphenol)                      | 108-39-4   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Cresol, o- (2-methylphenol)                      | 95-48-7    | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Cresol, p- (4-methylphenol)                      | 106-44-5   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Crotonaldehyde                                   | 123-73-9   | —                  | —                | —                                    | —                | 0.001                  | PPRTV            | —                            | —                | delete value                             | —                |
| Cyanide                                          | 57-12-5    | —                  | —                | —                                    | —                | 0.0006                 | —                | —                            | —                | 0.0008                                   | I                |
| Cyanogen                                         | 460-19-5   | —                  | —                | —                                    | —                | 0.001                  | —                | —                            | —                | 0.0008                                   | I                |
| Cyclohexanol                                     | 108-93-0   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Cyclohexanone                                    | 108-94-1   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | 0.7                                      | PPRTV            |
| Cyclotetramethylenetetranitramine (HMX)          | 2691-41-0  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Cyclotrimethylenetrinitramine (RDX)              | 121-82-4   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Cymene (isopropyltoluene)                        | 99-87-6    | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Diazinon                                         | 333-41-5   | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | 0.0001                                   | T                |
| Dibromo-3-chloropropane, 1,2-                    | 96-12-8    | LC                 | PPRTV            | —                                    | —                | —                      | —                | —                            | —                | —                                        | —                |
| Dibromofluoromethane                             | 1868-53-7  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Dicamba                                          | 1918-00-9  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Dichloro-2-butene, 1,4-                          | 764-41-0   | SEC                | PPRTV            | —                                    | —                | —                      | —                | —                            | —                | —                                        | —                |

| Toxicity Factor changes for 2011 PCL table update |     |
|---------------------------------------------------|-----|
| 1                                                 | 1   |
| 2                                                 | 2   |
| 3                                                 | 3   |
| 4                                                 | 4   |
| 5                                                 | 5   |
| 6                                                 | 6   |
| 7                                                 | 7   |
| 8                                                 | 8   |
| 9                                                 | 9   |
| 10                                                | 10  |
| 11                                                | 11  |
| 12                                                | 12  |
| 13                                                | 13  |
| 14                                                | 14  |
| 15                                                | 15  |
| 16                                                | 16  |
| 17                                                | 17  |
| 18                                                | 18  |
| 19                                                | 19  |
| 20                                                | 20  |
| 21                                                | 21  |
| 22                                                | 22  |
| 23                                                | 23  |
| 24                                                | 24  |
| 25                                                | 25  |
| 26                                                | 26  |
| 27                                                | 27  |
| 28                                                | 28  |
| 29                                                | 29  |
| 30                                                | 30  |
| 31                                                | 31  |
| 32                                                | 32  |
| 33                                                | 33  |
| 34                                                | 34  |
| 35                                                | 35  |
| 36                                                | 36  |
| 37                                                | 37  |
| 38                                                | 38  |
| 39                                                | 39  |
| 40                                                | 40  |
| 41                                                | 41  |
| 42                                                | 42  |
| 43                                                | 43  |
| 44                                                | 44  |
| 45                                                | 45  |
| 46                                                | 46  |
| 47                                                | 47  |
| 48                                                | 48  |
| 49                                                | 49  |
| 50                                                | 50  |
| 51                                                | 51  |
| 52                                                | 52  |
| 53                                                | 53  |
| 54                                                | 54  |
| 55                                                | 55  |
| 56                                                | 56  |
| 57                                                | 57  |
| 58                                                | 58  |
| 59                                                | 59  |
| 60                                                | 60  |
| 61                                                | 61  |
| 62                                                | 62  |
| 63                                                | 63  |
| 64                                                | 64  |
| 65                                                | 65  |
| 66                                                | 66  |
| 67                                                | 67  |
| 68                                                | 68  |
| 69                                                | 69  |
| 70                                                | 70  |
| 71                                                | 71  |
| 72                                                | 72  |
| 73                                                | 73  |
| 74                                                | 74  |
| 75                                                | 75  |
| 76                                                | 76  |
| 77                                                | 77  |
| 78                                                | 78  |
| 79                                                | 79  |
| 80                                                | 80  |
| 81                                                | 81  |
| 82                                                | 82  |
| 83                                                | 83  |
| 84                                                | 84  |
| 85                                                | 85  |
| 86                                                | 86  |
| 87                                                | 87  |
| 88                                                | 88  |
| 89                                                | 89  |
| 90                                                | 90  |
| 91                                                | 91  |
| 92                                                | 92  |
| 93                                                | 93  |
| 94                                                | 94  |
| 95                                                | 95  |
| 96                                                | 96  |
| 97                                                | 97  |
| 98                                                | 98  |
| 99                                                | 99  |
| 100                                               | 100 |

[illegible]

| Toxicity Factor changes for 2011 PCL table update |  |
|---------------------------------------------------|--|
|---------------------------------------------------|--|

[illegible]

| Toxicity Factor changes for 2011 PCL table update |  |
|---------------------------------------------------|--|
|---------------------------------------------------|--|

[illegible]

| Toxicity Factor changes for 2011 PCL table update |  |
|---------------------------------------------------|--|
|---------------------------------------------------|--|

[illegible]

| Toxicity Factor changes for 2011 PCL table update |  |
|---------------------------------------------------|--|
|---------------------------------------------------|--|

[illegible]

| Toxicity Factor changes for 2011 PCL table update |  |
|---------------------------------------------------|--|
|---------------------------------------------------|--|

[illegible]

| Toxicity Factor changes for 2011 PCL table update |  |
|---------------------------------------------------|--|
|---------------------------------------------------|--|

[illegible]

# Toxicity Factor changes for 2011 PCL table update

| Chemical of Concern       | CAS      | Class <sup>1</sup> | Ref <sup>2</sup> | SFo<br>(mg/kg-<br>day) <sup>-1</sup> | Ref <sup>2</sup> | RfD<br>(mg/k<br>g-day) | Ref <sup>2</sup> | URF<br>(ug/m3) <sup>-1</sup> | Ref <sup>2</sup> | RfC <sup>3</sup><br>(mg/m <sup>3</sup> ) | Ref <sup>2</sup> |
|---------------------------|----------|--------------------|------------------|--------------------------------------|------------------|------------------------|------------------|------------------------------|------------------|------------------------------------------|------------------|
| Vinylcyclohexane          | 695-12-5 | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| Warfarin                  | 81-81-2  | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | delete value                             | —                |
| 6 C aliphatics (TPH)      | NA       | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | 0.67                                     | —                |
| >6-8 C aliphatics (TPH)   | NA       | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | 0.67                                     | —                |
| >8-10 C aliphatics (TPH)  | NA       | —                  | —                | —                                    | —                | —                      | MA DEP           | —                            | —                | 0.5                                      | T                |
| >10-12 C aliphatics (TPH) | NA       | —                  | —                | —                                    | —                | —                      | MA DEP           | —                            | —                | 0.5                                      | T                |
| >12-16 C aliphatics (TPH) | NA       | —                  | —                | —                                    | —                | —                      | MA DEP           | —                            | —                | 0.5                                      | T                |
| >16-21 C aliphatics (TPH) | NA       | —                  | —                | —                                    | —                | —                      | MA DEP           | —                            | —                | —                                        | —                |
| >7-8 C aromatics (TPH)    | NA       | —                  | —                | —                                    | —                | —                      | —                | —                            | —                | 1.9                                      | —                |

**For questions on toxicity factors, contact the Toxicology Section at 877-992-8370.**

## Footnotes

**1** 2005 carcinogen guideline class descriptors: LC = likely to be carcinogenic to humans; SEC = suggestive evidence of carcinogenic potential; NLC = not likely to be carcinogenic to humans; IIACP = inadequate information to assess carcinogenic potential. These descriptors may be specific to the exposure pathway for which a carcinogenic toxicity factor was developed.

**2** Reference (Ref): A = ATSDR chronic MRL; CU = Cornell University Pesticide Management Education Program; EPA-OP = EPA Office of Pesticide Programs; H = HEAST, July, 1997; I = IRIS; MA DEP = Massachusetts Department of Environmental Protection; N = NCEA; NYSDOH = New York State Department of Health; OEHHHA = Cal/EPA Office of Environmental; PPRTV = EPA Provisional Peer Reviewed Toxicity Value; T = TCEQ Toxicology Division.

**3** RS-ESL values have been rescinded by the Toxicology Division as more scientifically rigorous methods are available for the derivation of inhalation toxicity factors which impact the setting of regulatory standards (i.e., TRRP PCLs). Consequently, there are no RS-ESLs to serve as a source of inhalation toxicity factors for TRRP, and RS-ESLs have been removed from the Toxicity Factors table. Any newly developed inhalation values by the Toxicology Division will not be differentially termed as "RS-ESLs," but will be referred to as an RfC or URF (with "T" noted as the source for the Toxicology Division) and undergo a more scientifically rigorous derivation process. If inhalation may be the driving exposure pathway for a chemical in a particular instance (e.g., groundwater-to-air or subsurface-soil-to-air for class 3 groundwater) but no inhalation toxicity factors are listed in the TRRP Toxicity Factors table, then contact the TCEQ to request that an inhalation toxicity factor and PCLs be derived. See the general process for requesting a PCL at <http://www.tceq.texas.gov/remediation/trrp/pclrequests.html>.

This table shows the 2011 changes to the protective concentration level tables  
end of worksheet