

**2022 CONTAMINANT SUMMARY REPORT**

November 14, 2023

4:25 pm

CN : CN602641664**Organization :** DEER PARK REFINING LIMITED PARTNERSHIP**RN :** RN111372785**Account :** HGA226S**Site :** DEER PARK OIL REFINERY**Last EI Date :** 12/31/2022**CRITERIA EMISSIONS TOTALS**

Pollutant Class	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
PM2.5	187.5167	1088.5893	0.0000	0.0000	0.0000
VOC	403.0936	2651.1076	0.0000	1.1845	1.1845
CO	701.0390	3843.5821	0.0000	0.4821	0.4821
NOX	774.1065	4241.4988	0.0000	0.0000	0.0000
SO2	298.3087	1442.4292	0.0000	437.3116	437.3116
PB	0.0408	0.2357	0.0000	0.0000	0.0000
PM10	199.6786	1171.3303	0.0000	0.0000	0.0000

CONTAMINANT SUMMARY REPORT

Contam	Contam Name	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
10000	PART-U	211.3969	1236.4974	0.0000	0.0000	0.0000
11160	HYDROCHLORIC ACID	1.9679	11.3701	0.0000	0.0000	0.0000
11170	PHOSPHORIC ACID	0.0120	0.0656	0.0000	0.0000	0.0000
11175	SULFURIC ACID	44.2541	250.5211	0.0000	0.0001	0.0001
11426	DIACETONE ALCOHOL	0.0000	0.0000	0.0000	0.0000	0.0000
11905	ANTHRACENE	0.0000	0.0002	0.0000	0.0000	0.0000
14012	ALUMINUM CHLORIDE- ALCL3	0.0003	0.0016	0.0000	0.0000	0.0000
14036	ARSENIC AND COMPOUNDS	0.0049	0.0281	0.0000	0.0000	0.0000
14051	BARIUM COMPOUNDS	0.0198	0.1146	0.0000	0.0000	0.0000
14071	BERYLLIUM AND COMPOUNDS	0.0006	0.0032	0.0000	0.0000	0.0000
14115	CADMIUM AND COMPOUNDS	0.0049	0.0286	0.0000	0.0000	0.0000
14164	CHROMIUM AND COMPOUNDS	0.0112	0.0649	0.0000	0.0000	0.0000
14171	COBALT AND COMPOUNDS	0.0074	0.0427	0.0000	0.0000	0.0000
14194	COPPER COMPOUNDS	0.0130	0.0749	0.0000	0.0000	0.0000
14310	LEAD-PB	0.0408	0.2357	0.0000	0.0000	0.0000
14355	MANGANESE AND COMPOUNDS	0.0173	0.0998	0.0000	0.0000	0.0000
14360	MERCURY-HG	0.0040	0.0232	0.0000	0.0000	0.0000
14595	SELENIUM AND COMPOUNDS	0.0240	0.1387	0.0000	0.0000	0.0000
14630	SODIUM HYDROXIDE, NAOH	0.0000	0.0000	0.0000	0.0000	0.0000
14660	SULFUR-S	0.1662	0.9877	0.0000	0.0000	0.0000
14780	ZINC-ZN	0.0001	0.0006	0.0000	0.0000	0.0000
20000	PM10 PART-U	199.6786	1171.3303	0.0000	0.0000	0.0000
39999	TOTAL PM2.5 PARTICULATE	187.5167	1088.5893	0.0000	0.0000	0.0000
50001	VOC-UNCLASSIFIED	111.3243	726.1610	0.0000	0.0496	0.0496
50002	POLYCYCLIC ORGANIC MATTER	0.0036	0.0229	0.0000	0.0000	0.0000
51400	ALCOHOLS-U	0.0008	0.0087	0.0000	0.0000	0.0000
51410	ALLYL ALCOHOL	0.0016	0.0220	0.0000	0.0000	0.0000
51440	N-BUTYL ALCOHOL	0.0081	0.0446	0.0000	0.0000	0.0000



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Site : DEER PARK OIL REFINERY

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Contam	Contam Name	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
51460	ETHANOL	0.0183	0.2378	0.0000	0.0000	0.0000
51467	SULFOLANE	0.0006	0.0036	0.0000	0.0000	0.0000
51468	METHOXYETHANOL, 2-	0.3370	2.3483	0.0000	0.0000	0.0000
51471	ETHYLENE GLYCOL	0.0360	0.1975	0.0000	0.0000	0.0000
51472	PROPYLENE GLYCOL	0.0010	0.0055	0.0000	0.0000	0.0000
51473	DIETHYLENE GLYCOL	0.0000	0.0001	0.0000	0.0000	0.0000
51490	ISOBUTANOL	0.1724	0.9315	0.0000	0.0000	0.0000
51491	METHYL-2,4-PENTANEDIOL 2	0.0000	0.0010	0.0000	0.0000	0.0000
51493	METHYL CARBITOL	0.0005	0.0027	0.0000	0.0000	0.0000
51510	ISOPROPANOL	0.4938	6.3264	0.0000	0.0000	0.0000
51521	ETHYL HEXANOL 2	0.0004	0.0020	0.0000	0.0000	0.0000
51530	METHANOL	0.9269	10.9555	0.0000	0.0000	0.0000
51534	O-CRESOL	0.0000	0.0000	0.0000	0.0000	0.0000
51548	2,4-DINITROPHENOL	0.0024	0.0139	0.0000	0.0000	0.0000
51550	PHENOL	0.1509	0.9732	0.0000	0.0000	0.0000
51570	N-PROPANOL	0.0002	0.0011	0.0000	0.0000	0.0000
51572	DICHLORO 1,3 PROPANOL 3	0.0191	0.2510	0.0000	0.0000	0.0000
51576	EPOXY 1,2 PROPANOL 3	0.0011	0.0132	0.0000	0.0000	0.0000
51580	SEC BUTYL ALCOHOL	0.0836	1.0947	0.0000	0.0000	0.0000
51590	TERT BUTYL ALCOHOL	0.0000	0.0001	0.0000	0.0000	0.0000
51601	ETHYLHEXALDEHYDE DOT	0.0000	0.0000	0.0000	0.0000	0.0000
51620	ACETALDEHYDE	0.5462	4.2636	0.0000	0.0000	0.0000
51640	ACROLEIN	0.0106	0.0612	0.0000	0.0000	0.0000
51660	BUTYRALDEHYDE	0.0000	0.0001	0.0000	0.0000	0.0000
51661	ISOBUTYRALDEHYDE	0.0000	0.0000	0.0000	0.0000	0.0000
51680	FORMALDEHYDE	2.0679	12.0466	0.0000	0.0000	0.0000
51762	BENZO G,H,I PERYLENE	0.0000	0.0002	0.0000	0.0000	0.0000
51810	ALKANES-U	9.1181	82.1222	0.0000	0.0002	0.0002
51820	ACETYLENE	0.0684	0.3385	0.0000	0.0000	0.0000
51825	METHYL ACETYLENE	0.0008	0.0042	0.0000	0.0000	0.0000
52200	AMINES-U	0.0003	0.0016	0.0000	0.0000	0.0000
52202	METHYLDIETHANOLAMINE	0.6439	3.5291	0.0000	0.0000	0.0000
52243	CYCLOHEXYLAMINE	0.0003	0.0016	0.0000	0.0000	0.0000
52252	DIETHANOLAMINE	1.0435	5.7185	0.0000	0.0000	0.0000
52259	PETROLEUM DISTILLATES	0.4880	2.7656	0.0000	0.0000	0.0000
52265	AROMATIC PETROLEUM DISTILLATE HEAVY	0.0013	0.0086	0.0000	0.2209	0.2209
52275	DIISOPROPYLBENZENE ALL ISOMERS	0.0137	0.0366	0.0000	0.0000	0.0000
52279	MONOETHANOLAMINE	0.0061	0.0334	0.0000	0.0000	0.0000



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Contam	Contam Name	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
52296	METHYLAMYL ALCOHOL	0.0482	0.5825	0.0000	0.0000	0.0000
52355	N,N'-DI-SEC-BUTYL-P-PHENYLDIAMINE	0.0090	0.0499	0.0000	0.0000	0.0000
52400	AROMATICS-U	0.8301	6.2471	0.0000	0.0000	0.0000
52410	ALPHA METHYL STYRENE	0.0001	0.0004	0.0000	0.0000	0.0000
52415	BENZENES, CHLORONATED	0.0096	0.0555	0.0000	0.0000	0.0000
52416	TRIMETHYL BENZENE, 1,2,4-	0.1967	1.7448	0.0000	0.0000	0.0000
52418	TRIMETHYL BENZENE, 1,3,5-	0.0493	0.1937	0.0000	0.0000	0.0000
52420	BENZENE	10.1142	67.7257	0.0000	0.0165	0.0165
52424	DICHLOROBENZENE MIXED ISOMERS	0.0185	0.1043	0.0000	0.0000	0.0000
52426	BENZENE SULFONYL CHLORIDE	0.0021	0.0116	0.0000	0.0000	0.0000
52428	TRIMETHYL BENZENE	0.0029	0.0154	0.0000	0.0000	0.0000
52440	CUMENE	3.6041	23.5565	0.0000	0.0001	0.0001
52450	ETHYL BENZENE	1.0699	9.4734	0.0000	0.0077	0.0077
52460	NAPHTHALENE	0.5846	3.5036	0.0000	0.0005	0.0005
52477	FLUORANTHENE	0.0000	0.0000	0.0000	0.0000	0.0000
52480	STYRENE	0.0249	0.1820	0.0000	0.0000	0.0000
52490	TOLUENE	7.3976	31.4464	0.0000	0.0105	0.0105
52510	XYLENE-U	3.2797	31.8056	0.0000	0.0603	0.0603
52512	META-XYLENE	1.9499	10.7862	0.0000	0.0006	0.0006
52514	ORTHO-XYLENE	0.0457	0.4496	0.0000	0.0004	0.0004
52516	PARA-XYLENE	0.0243	0.1401	0.0000	0.0006	0.0006
52639	BUTYL ETHER, N-	0.0003	0.0019	0.0000	0.0000	0.0000
52710	DIBUTYL PHTHALATE	0.0208	0.1202	0.0000	0.0000	0.0000
52782	DIMETHYL PHTHALATE	0.0773	0.0170	0.0000	0.0000	0.0000
52834	PROPYLENE GLYCOL MONOMETHYL ETHER	0.0012	0.0066	0.0000	0.0000	0.0000
52855	METHYLHEPTANE,3-	0.0052	0.0329	0.0000	0.0000	0.0000
52878	METHYL TERT-BUTYL ETHER	0.0990	1.2455	0.0000	0.0000	0.0000
52879	DIMETHYL ETHER	0.0002	0.0012	0.0000	0.0000	0.0000
52882	AMYL METHYL ETHER, TERT-	0.0710	0.3891	0.0000	0.0000	0.0000
52884	BUTYL ETHYL ETHER, TERT-	0.0707	0.3875	0.0000	0.0000	0.0000
52910	EPICHLOROHYDRIN	0.0190	0.1845	0.0000	0.0000	0.0000
52920	ISOPROPYL ETHER	0.0988	1.2346	0.0000	0.0000	0.0000
53220	CHLOROFORM	0.0000	0.0002	0.0000	0.0000	0.0000
53250	METHYLENE CHLORIDE	0.7090	9.1288	0.0000	0.0000	0.0000
53270	1,2-DICHLOROETHANE	0.0000	0.0000	0.0000	0.0000	0.0000
53340	TRICHLOROPROPANE	0.3888	4.4100	0.0000	0.0000	0.0000
53625	CUMENE HYDROPEROXIDE	0.0000	0.0002	0.0000	0.0000	0.0000
54020	ACETONE	22.9721	136.5591	0.0000	0.0000	0.0000



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54059	MESITYL OXIDE	0.0002	0.0016	0.0000	0.0000	0.0000
54065	METHYL ETHYL KETONE	0.2721	3.5504	0.0000	0.0000	0.0000
54070	METHYL ISOBUTYL KETONE	0.2872	3.3988	0.0000	0.0000	0.0000
55000	OLEFINS-U	23.2346	107.3130	0.0000	0.0153	0.0153
55150	1,3- BUTADIENE	6.6604	36.8784	0.0000	0.0032	0.0032
55175	BUTENE	0.7295	3.9722	0.0000	0.0013	0.0013
55176	1-BUTENE	4.1054	22.4809	0.0000	0.0003	0.0003
55177	CIS-2-BUTENE	4.4975	24.1250	0.0000	0.0005	0.0005
55178	ISOBUTENE	5.3976	24.7532	0.0000	0.0001	0.0001
55179	TRANS-2-BUTENE	4.5824	23.9030	0.0000	0.0006	0.0006
55220	CYCLOPENTADIENE	0.5742	4.8067	0.0000	0.0000	0.0000
55300	ETHYLENE	10.3967	57.0092	0.0000	0.0054	0.0054
55320	HEPTENES MIXED ISOMERS	0.0240	0.1157	0.0000	0.0000	0.0000
55405	BUTYLENES - UNCLASSIFIED	0.0209	0.1147	0.0000	0.0000	0.0000
55450	ISOPRENE	0.3782	3.1710	0.0000	0.0000	0.0000
55475	BUTENE 2-METHYL-2	0.0005	0.0026	0.0000	0.0000	0.0000
55477	BUTENE 3-METHYL-1	0.0001	0.0008	0.0000	0.0000	0.0000
55525	PENTENE 1	0.0649	0.4489	0.0000	0.0000	0.0000
55527	CIS-2-PENTENE	0.0001	0.0007	0.0000	0.0000	0.0000
55528	TRANS-2-PENTENE	0.0007	0.0038	0.0000	0.0000	0.0000
55550	PERCHLOROETHYLENE	0.1355	0.7424	0.0000	0.0000	0.0000
55600	PROPYLENE	7.0209	35.7873	0.0000	0.0028	0.0028
56000	PARAFFINS-U	0.1826	1.2608	0.0000	0.0000	0.0000
56050	CYCLOHEXANE	0.3154	2.1269	0.0000	0.0240	0.0240
56075	CYCLOPROPANE	0.0000	0.0000	0.0000	0.0000	0.0000
56100	CYCLOPENTANE	0.0768	0.6190	0.0000	0.0971	0.0971
56105	CYCLOPENTENE	0.6819	5.0331	0.0000	0.0000	0.0000
56150	METHYLCYCLOHEXANE	0.0903	0.5873	0.0000	0.0001	0.0001
56200	METHYLCYCLOPENTANE	1.1916	7.1732	0.0000	0.0001	0.0001
56524	2,3-DIMETHYLBUTANE	0.2584	1.7721	0.0000	0.0000	0.0000
56526	DIMETHYL BUTANE 2,2	9.1043	58.4354	0.0000	0.0000	0.0000
56527	NEOPENTANE	0.0001	0.0003	0.0000	0.0000	0.0000
56528	ISOHEXANE AKA 2-METHYLPENTANE	0.9759	7.9210	0.0000	0.0000	0.0000
56550	ETHANE	0.0000	0.0000	0.0000	0.0000	0.0000
56575	HEPTANE	1.3017	6.1367	0.0000	0.0000	0.0000
56576	HEPTANE ISOMERS	0.2086	1.6148	0.0000	0.0001	0.0001
56600	HEXANE	4.8096	34.0570	0.0000	0.0911	0.0911
56601	METHYL PENTANE 3	0.3703	2.8204	0.0000	0.0000	0.0000



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56605	TRIMETHYLPENTANE,2,3,4-	0.0899	0.6355	0.0000	0.0000	0.0000
56609	2,2,3 - TRIMETHYLPENTANE	0.0001	0.0004	0.0000	0.0000	0.0000
56610	2,2,4-TRIMETHYLPENTANE	0.4003	2.8442	0.0000	0.0000	0.0000
56615	DIISOBUTYLENE	0.0000	0.0001	0.0000	0.0000	0.0000
56625	ISOBUTANE	14.5739	83.7316	0.0000	0.0482	0.0482
56651	METHYLHEXANE, 3-	0.0853	0.6437	0.0000	0.0001	0.0001
56674	OCTANE	0.0180	0.1201	0.0000	0.0000	0.0000
56680	DECANE	0.0001	0.0007	0.0000	0.0000	0.0000
56683	UNDECANE	0.0758	0.6634	0.0000	0.0000	0.0000
56700	ISO PENTANE	12.6051	98.8311	0.0000	0.0382	0.0382
56703	NONANE	0.0008	0.0042	0.0000	0.0000	0.0000
56725	N BUTANE	23.1676	130.8380	0.0000	0.0136	0.0136
56750	PENTANE	0.0002	0.0009	0.0000	0.0000	0.0000
56752	N-PENTANE	9.3463	83.9947	0.0000	0.0383	0.0383
56753	DIMETHYLCYCLOPENTANE	0.0150	0.0954	0.0000	0.0000	0.0000
56775	PROPANE	16.7695	82.1844	0.0000	0.0330	0.0330
58210	ACETONITRILE	0.1230	1.5932	0.0000	0.0000	0.0000
58240	HYDROGEN CYANIDE GAS	5.9195	34.2020	0.0000	0.0000	0.0000
58712	ETHYLTOLUENE,M-	0.0002	0.0012	0.0000	0.0000	0.0000
58725	METHYL MERCAPTAN	0.0003	0.0010	0.0000	0.0000	0.0000
58998	ALIPHATIC PETROLEUM DISTILLATE	0.0052	0.0287	0.0000	0.0000	0.0000
58999	AROMATIC PETROLEUM DISTILLATE LIGHT	4.1923	32.0269	0.0000	0.0000	0.0000
59001	CRUDE OIL	0.0000	0.0000	0.0000	0.0010	0.0010
59003	GASOLINE	0.1923	1.0536	0.0000	0.0269	0.0269
59004	JET FUEL	0.0000	0.0000	0.0000	0.0535	0.0535
59005	KEROSENE	24.3656	190.2307	0.0000	0.0017	0.0017
59009	PETROLEUM DISTILLATE	2.3947	3.5061	0.0000	0.0000	0.0000
59011	PETROLEUM NAPHTHA	0.7507	4.1038	0.0000	0.0000	0.0000
59015	SOLVENT REFINED HEAVY NAPHTHENIC DISTILLATE	0.1299	0.7117	0.0000	0.0000	0.0000
59020	HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	0.1246	0.6830	0.0000	0.0000	0.0000
59050	CCU FEED	2.5559	13.6736	0.0000	0.0000	0.0000
59090	CONDENSATE	0.0485	0.0196	0.0000	0.0000	0.0000
59150	DIESEL	17.3598	168.3840	0.0000	0.0019	0.0019
59210	NO 2 FUEL OIL	0.0553	0.4384	0.0000	0.0000	0.0000
59225	NO 6 FUEL OIL	0.0942	0.5171	0.0000	0.0000	0.0000
59250	GAS OIL	18.8352	153.0672	0.0000	0.0031	0.0031
59275	MINERAL SPIRITS	1.0229	5.6073	0.0000	0.0000	0.0000



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59300	NAPHTHA	5.9648	39.4738	0.0000	0.3151	0.3151
59305	NAPHTHA, PETROLEUM, HYDRO TREAT LT	0.0070	0.0381	0.0000	0.0000	0.0000
59310	NAPHTHA, PETROLEUM, HEAVY CATALYTIC REFORMED	0.0140	0.0768	0.0000	0.0000	0.0000
59330	PARAFFIN WAX FUMES	0.0015	0.0174	0.0000	0.0000	0.0000
59375	PROCESS FUEL GAS	0.0156	0.0854	0.0000	0.0000	0.0000
59400	RAFFINATE	0.3203	1.7553	0.0000	0.0000	0.0000
59450	REFORMATE	0.5295	3.4878	0.0000	0.0000	0.0000
59490	VACUUM BOTTOMS	1.3093	7.7326	0.0000	0.0000	0.0000
59500	ASPHALT FUMES	0.0000	0.0000	0.0000	0.0000	0.0000
59861	ACETOPHENONE	0.0117	0.1496	0.0000	0.0000	0.0000
59866	PHENANTHRENE	0.0004	0.0038	0.0000	0.0000	0.0000
70050	AMMONIA	12.8209	78.1862	0.0000	0.0000	0.0000
70225	CARBON DISULFIDE	0.0059	0.0340	0.0000	0.0000	0.0000
70300	HYDROGEN SULFIDE	7.2925	42.9540	0.0000	5.3255	5.3255
70400	NITROGEN OXIDES	774.1065	4241.4988	0.0000	0.0000	0.0000
70510	SULFUR DIOXIDE	298.3087	1442.4292	0.0000	437.3116	437.3116
71400	HYDRAZINE	0.0000	0.0000	0.0000	0.0000	0.0000
90300	CARBON MONOXIDE	701.0390	3843.5821	0.0000	0.4821	0.4821



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11160	HYDROCHLORIC ACID	1.9679	11.3701	0.0000	0.0000	0.0000
11905	ANTHRACENE	0.0000	0.0002	0.0000	0.0000	0.0000
14036	ARSENIC AND COMPOUNDS	0.0049	0.0281	0.0000	0.0000	0.0000
14071	BERYLLIUM AND COMPOUNDS	0.0006	0.0032	0.0000	0.0000	0.0000
14115	CADMIUM AND COMPOUNDS	0.0049	0.0286	0.0000	0.0000	0.0000
14164	CHROMIUM AND COMPOUNDS	0.0112	0.0649	0.0000	0.0000	0.0000
14171	COBALT AND COMPOUNDS	0.0074	0.0427	0.0000	0.0000	0.0000
14310	LEAD-PB	0.0408	0.2357	0.0000	0.0000	0.0000
14355	MANGANESE AND COMPOUNDS	0.0173	0.0998	0.0000	0.0000	0.0000
14360	MERCURY-HG	0.0040	0.0232	0.0000	0.0000	0.0000
14595	SELENIUM AND COMPOUNDS	0.0240	0.1387	0.0000	0.0000	0.0000
50002	POLYCYCLIC ORGANIC MATTER	0.0036	0.0229	0.0000	0.0000	0.0000
51468	METHOXYETHANOL, 2-	0.3370	2.3483	0.0000	0.0000	0.0000
51471	ETHYLENE GLYCOL	0.0360	0.1975	0.0000	0.0000	0.0000
51493	METHYL CARBITOL	0.0005	0.0027	0.0000	0.0000	0.0000
51530	METHANOL	0.9269	10.9555	0.0000	0.0000	0.0000
51534	O-CRESOL	0.0000	0.0000	0.0000	0.0000	0.0000
51548	2,4-DINITROPHENOL	0.0024	0.0139	0.0000	0.0000	0.0000
51550	PHENOL	0.1509	0.9732	0.0000	0.0000	0.0000
51620	ACETALDEHYDE	0.5462	4.2636	0.0000	0.0000	0.0000
51640	ACROLEIN	0.0106	0.0612	0.0000	0.0000	0.0000
51680	FORMALDEHYDE	2.0679	12.0466	0.0000	0.0000	0.0000
51762	BENZO G,H,I PERYLENE	0.0000	0.0002	0.0000	0.0000	0.0000
52252	DIETHANOLAMINE	1.0435	5.7185	0.0000	0.0000	0.0000
52420	BENZENE	10.1142	67.7257	0.0000	0.0165	0.0165
52440	CUMENE	3.6041	23.5565	0.0000	0.0001	0.0001
52450	ETHYL BENZENE	1.0699	9.4734	0.0000	0.0077	0.0077
52460	NAPHTHALENE	0.5846	3.5036	0.0000	0.0005	0.0005
52477	FLUORANTHENE	0.0000	0.0000	0.0000	0.0000	0.0000
52480	STYRENE	0.0249	0.1820	0.0000	0.0000	0.0000
52490	TOLUENE	7.3976	31.4464	0.0000	0.0105	0.0105
52510	XYLENE-U	3.2797	31.8056	0.0000	0.0603	0.0603
52512	META-XYLENE	1.9499	10.7862	0.0000	0.0006	0.0006
52514	ORTHO-XYLENE	0.0457	0.4496	0.0000	0.0004	0.0004
52516	PARA-XYLENE	0.0243	0.1401	0.0000	0.0006	0.0006
52710	DIBUTYL PHTHALATE	0.0208	0.1202	0.0000	0.0000	0.0000
52782	DIMETHYL PHTHALATE	0.0773	0.0170	0.0000	0.0000	0.0000
52878	METHYL TERT-BUTYL ETHER	0.0990	1.2455	0.0000	0.0000	0.0000



2022 CONTAMINANT SUMMARY REPORT

November 14, 2023

4:25 pm

CN : CN602641664

Organization : DEER PARK REFINING LIMITED PARTNERSHIP

RN : RN111372785

Account : HGA226S

Site : DEER PARK OIL REFINERY

Last EI Date : 12/31/2022

HAPS SUMMARY REPORT

Contam	Contam Name	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
52910	EPICHLOROHYDRIN	0.0190	0.1845	0.0000	0.0000	0.0000
53220	CHLOROFORM	0.0000	0.0002	0.0000	0.0000	0.0000
53250	METHYLENE CHLORIDE	0.7090	9.1288	0.0000	0.0000	0.0000
53270	1,2-DICHLOROETHANE	0.0000	0.0000	0.0000	0.0000	0.0000
54070	METHYL ISOBUTYL KETONE	0.2872	3.3988	0.0000	0.0000	0.0000
55150	1,3- BUTADIENE	6.6604	36.8784	0.0000	0.0032	0.0032
55550	PERCHLOROETHYLENE	0.1355	0.7424	0.0000	0.0000	0.0000
56600	HEXANE	4.8096	34.0570	0.0000	0.0911	0.0911
56610	2,2,4-TRIMETHYLPENTANE	0.4003	2.8442	0.0000	0.0000	0.0000
58210	ACETONITRILE	0.1230	1.5932	0.0000	0.0000	0.0000
58240	HYDROGEN CYANIDE GAS	5.9195	34.2020	0.0000	0.0000	0.0000
59861	ACETOPHENONE	0.0117	0.1496	0.0000	0.0000	0.0000
59866	PHENANTHRENE	0.0004	0.0038	0.0000	0.0000	0.0000
70225	CARBON DISULFIDE	0.0059	0.0340	0.0000	0.0000	0.0000
71400	HYDRAZINE	0.0000	0.0000	0.0000	0.0000	0.0000
Total		54.5820	352.3080	0.0000	0.1915	0.1915