TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Comprehensive Performance Test (CPT) Laboratory Data Report QA/QC Checklist

THIS CHECKLIST MUST BE COMPLETED BY THE IHW PERMITTED FACILITY, and is provided as part of the evaluation process for the data validation and verification of the Comprehensive and Performance Test (CPT) in accordance with 40 CFR Part 63, Subpart EEE. The validation methods and actions discussed in this checklist are based on the requirements set forth in the Test Methods for Evaluating Solid, Physical/Chemical Method SW846, or other US EPA approved methods. Any modification must be approved by US EPA Region 6 in accordance with the regulations. This checklist covers technical problems specific to each fraction and sample matrix; however, situations may arise where data limitations must be assessed based on the reviewer’s professional judgement.

To ensure a thorough evaluation of each result in a data case, the reviewer must complete the checklist by answering specific questions while performing the prescribed ‘ACTIONS” in each section. If entries are lengthy or in a Table form, the reviewer must prepare a detailed data assessment in a separate sheet to be submitted along with the completed checklist. The data assessment must list all deviations and provide discussion on the impact that each deviation had on the analytical results. Submission must also include a complete copy of the CPT Report (a compact disk is acceptable).

Data reviewers must possess a working knowledge of SW846 Analytical Methods, and other US EPA approved methods.

SUBMIT THESE REQUIRED DOCUMENTS TO: TCEQ, Industrial and Hazardous Waste Permits Section – MC-130, P.O. Box 13087, Austin, Texas 78711-3087. If you have questions on how to fill out this checklist, please contact us at (512) 239-6412.

Caution: *This checklist is NOT a substitute for the complete rules and regulations, and is not to be used or interpreted as such. If you have any questions, contact the I&HW Permits Section at (512) 239-6412. A complete description of state rules in 30 Texas Administrative Code (TAC) Chapter 335 is available on the Internet at* [*www.tceq.state.tx.us/rules/indxpdf.html*](http://www.tceq.state.tx.us/rules/indxpdf.html). *Complete federal hazardous waste rules are located in Title 40 Code of Federal Regulations (CFR), Parts 260-299, viewable through the EPA Web site at* [*http://www.ecfr.gov/*](http://www.ecfr.gov/cgi-bin/text-idx?SID=2e604bd9ae1e244a0b418f8ac9d97e52&tpl=/ecfrbrowse/Title40/40tab_02.tpl)*.*

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| Facility Name:      | Permit/SWReg. No.:      |
| Address:      | Date of Report:  /  /    Testing Date:  /  /      /  /     |
| Unit Type:      |
| **FOR TCEQ USE ONLY** |
| Reviewed by:      |
| Approved by:      |
| Date Review of Report Completed:  /  /     |

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| DEFINITIONS  |
| Acronyms and AbbDeviationsAl -- AluminumBFB -- bromoflurobenzeneBtu/lb -- British thermal units per poundCa -- CalciumCARB -- California Air Resource BoardCB -- calibration blankCCC -- calibration check compoundCCV -- continuing calibration verificationCEMS -- Continuous Emission Monitoring SystemCL2 -- chlorine gasCO -- carbon monoxideCO2 -- carbon dioxide COC -- chain of custodyCFR -- Code Of Federal RegulationsCPT -- Comprehensive Performance TestCr6 -- chromium (VI)%D -- percent differenceD/F -- dioxins/furanDFTPP -- decafluorotriphenylphosphineDILO -- data in lieu ofDRE -- destruction removal efficiencyEPA -- Environmental Protection AgencyFe -- IronGC/MS -- gas chromatography – mass spectrometryHC -- HydrocarbonHCL/Cl2 -- hydrogen chloride and chlorine gasHg -- mercuryHRA -- hourly rolling averageHWC -- hazardous waste combustionICS -- interference check sampleICV -- initial calibration verificationIHW -- industrial and hazardous wasteIS -- internal standardHWC -- hazardous waste combustionLOD -- limit of detectionLOQ -- limits of quantitationLCS -- laboratory control sampleLCSD -- laboratory control sample duplicate LVM -- low volatility metals | MACT -- Maximum Achievable Control TechnologyMB -- method blankMDL -- method detection limitMg -- MagnesiumMS -- matrix spikeMSD -- matrix spike duplicateMTEC -- maximum theoretical emission concentrationNIST -- National Institute of Standards and TechnologyO2 -- oxygenPAH -- polycyclic aromatic hydrocarbonPCDD -- polychlorinated dibenzo dioxinPCDF -- polychlorinated dibenzo furanPDS -- post digestion spikePFK -- perfluorokerosinePM -- particulate matterPOHC(s) -- principal organic hazardous constituent(s)ppm -- parts per million PQL -- practical quantitation limitQC -- quality controlQA -- quality assuranceQAPP -- quality assurance project planRA -- relative accuracyRR -- relative responseRL -- reporting limitRPD -- relative percent differenceRRF -- relative response factorRRT -- relative retention timeRSD -- relative standard deviationRATA -- relative accuracy test auditRT -- retention timeSPCC -- system performance check compoundSVOST -- semi-volatile organic sampling trainTCEQ -- Texas Commission on Environmental QualitySVM -- semi-volatile metalsTHC -- total hydrocarbonTOE -- total organic emissionsug/dscm -- micrograms per dry standard cubic meter VOST -- volatile organic sampling trainVOA -- volatile organic analysisVOC(s) -- volatile organic compound(s) |

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| PRESERVATION & TECHNICAL HOLDING TIME CRITERIARefer to [TCEQ QAPP](http://www.tceq.texas.gov/assets/public/permitting/waste/ihw/FY2013_qapp.pdf) ( A7.3, Section B2.4) for preservation and technical holding time data validation criteria. |

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| QAPP QUALITY ASSURANCE/QUALITY CONTROL |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |

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| --- | --- | --- | --- |
| 1. Prior to Testing was the [signature page](#_APPENDIX_A) signed off by responsible management staff?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 2. Prior to testing was the [HWC summary testing table](#_APPENDIX_B) submitted to EPA/TCEQ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 3. Prior to testing were all [Method Modifications](#_APPENDIX_C) approved by EPA Region 6?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |

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| DATA VALIDATION AND VERIFICATION |
| Section 1.0 HWC WASTE FEED SAMPLES |
| Parameter: VOLATILE ORGANIC ANALYSISMethod(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 1.1.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 1.1.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.3 Has the GC/MS system hardware been tuned to meet BFB criteria within 12 hours prior to sample analysis?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.4 Is the initial calibration performed with a minimum of 5 concentration levels for each target analyte?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.5 Were samples analyzed within 12 hours of either the initial calibration or the 12-hours standard?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.6 Are the RRTs of each target analyte in each calibration standards agree within 0.06 relative retention time units?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.7 Are the RRFs in the initial calibration for volatile target compounds and surrogates meet the following acceptance criteria: > or = to 0.01 for the “poor performers”, and 0.05 for all other volatile compounds?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.8 Do the average RRFs for the SPCCs in the initial calibration standards meet the QC acceptance criteria? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.9 Are the RRFs for the CCCs within acceptable limits of %RSD?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.10 Has a CCV or 12-hour standard (a.k.a. midpoint calibration standard) been analyzed for every 12 hours of sample analysis?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.11 Do the % D between the initial calibration average RRF and the 12-hours standard continuing calibration RRF meet the following acceptance criteria: +50.0 % for the target volatile compounds & surrogates and +/25.0 % for all other volatile compounds and surrogates ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.12 Do any CCCs in the CCV have a % D between the 12-hour standard and the initial calibration which exceeds the +/-25% criteria?[ ]  Yes [ ]  NoNote: The lab may establish their own criteria (e.g., +/-20%) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.13 Is raw data available to determine if the internal standards are within criteria?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.14 Do any internal standard retention times vary by more than +/-30 seconds from the associated 12-hours calibration verification standard?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.15 Are the area counts for internal standards for the sample or blank are within the + 50% of the area for the associated 12-hours standard (CCV)?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.16 Is the MS/MSD recovery data present?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.17 Were the MS/MSD from samples collected for this work?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.18 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.19 Are the surrogate recovery data present for each batch (method and matrix)?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.20 Were method blanks taken through the entire preparation and analytical process?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.21 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.22 Were any of the samples diluted? If so, were appropriate calculations made to the MDL/ or RL of the final report?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.23 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.24 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.1.25 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |

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| 1.1.26 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| Parameter: SEMI-VOLATILE ORGANIC ANALYSISMethod(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 1.2.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 1.2.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.3 Has the GC/MS System hardware been tuned to meet DFTPP tuning criteria within 12 hours prior to sample analysis?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.4 Is the initial calibration performed within a minimum of 5 concentration levels for each target analyte?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.5 Are the RRT of reported compounds in the ICV within +/-0.0.6 RRT for the initial calibration? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.6 Is the %RSD for individual analytes (except CCCs, see question 1.2.7) in the initial calibration below 15%? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.7 Do CCC in the initial calibration standards meet a %RSD of 30% or less?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.8 Has a mid-range continuing calibration standard containing all calibration compounds and surrogates been analyzed for every 12 hours of sample analysis?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.9 Do any CCCs in the CCV have a % D between the 12-hours standard and the initial calibration which exceeds the +/-25% criteria?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.10 Is raw data available to determine if the internal standards are within criteria? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.11 Do any internal standard retention times vary by more than 30 seconds compare to the 12-hours calibration standard?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.12 Are the area counts for internal standards for the sample or blank outside of ±50% of the area for the associated 12-hours standard (CCV)?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.13 Is the MS/MSD recovery data present?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.14 Were the MS and MSD from samples collected for this work order ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.15 Is the LCS/LCSD recovery data present for each analytical batch?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.16 Are the surrogate recovery data present for each batch (method and matrix)?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.17 Were method blanks taken through the entire preparation and analytical process? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.18 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.19 Were any of the samples diluted? If so, were appropriate calculations made to the MDL/ or RL of the final report?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.20 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.21 Were samples properly preserved according to method and QAPP requirements? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.22 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.23 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.2.24 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| Parameter: METALS (SVM/LVM) Method(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 1.3.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.3 Is the initial calibration performed within a minimum of 5 concentration levels for each target analyte?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.4 Was an ICV, a Calibration Blank, and a CCV analyzed immediately after the initial or daily calibration?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.5 Are concentrations of interfering metals (e.g., Al, Ca, Fe, and Mg) in samples comparable or greater than concentration in the ICS?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.6 Were method blanks taken through the entire preparation and analytical process? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.7 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.8 Is the MS/MSD recovery data present? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.9 Were the MS and MSD from samples collected for this work order ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.10 Was a post-digestion spike performed?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.11 Were duplicate injection of samples performed? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.12 If samples were re-analyzed (i.e., 2 more injections), do the duplicate injections agree with in 20% RSD?[ ]  Yes [ ]  NoNote: The lab may establish their own criteria (e.g., +/-20%) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.13 Was an ICS analyzed at the beginning and end of each analytical run or at a minimum of two every eight hours?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.14 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.15 Were any of the samples diluted? If so, were appropriate calculations made to the MDL/ or RL of the final report? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.16 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.17 Were samples properly preserved according to method and QAPP requirements? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.18 Are COC forms (signed/dated/timed) present for all samples? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.19 Was a Case Narrative prepared and all deviations noted? [ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.3.20 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| Parameter: MERCURYMethod(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 1.4.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 1.4.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.3 Is the initial calibration performed within a minimum of 5 concentration levels for each target analyte?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.4 Was an ICV, a CB, and a CCV analyzed immediately after the initial or daily calibration?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.5 Were method blanks taken through the entire preparation and analytical process? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.6 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.7 Is the MS/MSD recovery data present? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.8 Were the MS and MSD from samples collected for this work order ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.9 Were duplicate injection of samples performed?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.10 If samples were re-analyzed (i.e., 2 more injections), do the duplicate injections agree with in 20% RSD?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.11 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.12 Were any of the samples diluted? If so, were appropriate calculations made to the MDL/ or RL of the final report? [ ]  Yes [ ]  NoNote: The lab may establish their own criteria (e.g., +/-20%) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.13 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.14 Were samples properly preserved according to method and QAPP requirements? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.15 Are COC forms (signed/dated/timed) present for all samples? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.4.16 Was a Case Narrative prepared and all deviations noted? [ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |

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| 1.4.17 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| Parameter: ASHMethod(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 1.5.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 1.5.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.5.3 Have appropriate analytical instrument calibration procedures been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.5.4 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.5.5 Were method blanks taken through the entire preparation and analytical process? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.5.6 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.5.7 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.5.8 Were samples properly preserved according to method and QAPP requirements? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.5.9 Are COC forms (signed/dated/timed) present for all samples? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.5.10 Was a Case Narrative prepared and all deviations noted? [ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.5.11 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| Parameter: PHYSICAL AND THERMAL PROPERTIES (VISCOSITY, BTU/LB, SP. GRAVITY)Method(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 1.6.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 1.6.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.6.3 Have appropriate analytical instrument calibration procedures and calibration checks been followed as specified for each parameter?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.6.4 Are sampling points clearly identified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.6.5 Were the proper equation and constant used in calculating the kinematic viscosity followed?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.6.6 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.6.7 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.6.8 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.6.9 Was a Case Narrative prepared and all deviations noted? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.6.10 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| Parameter: TOTAL CHLORINEMethod(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 1.7.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 1.7.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.3 Is the initial calibration performed ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.4 Was a CB, and a CCV analyzed immediately after the initial or daily calibration?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.5 For manual integrated standards, are before/after Chromatograms provided with initials/date reasons?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.6 Was the Calibration Check Standard performed after every initial calibration & before sample analysis?90% - 110% theoretical concentration[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.7 Were method blanks taken through the entire preparation and analytical process? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.8 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.9 Were the MS and MSD from samples collected for this work order ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.10 Were duplicates for all standards/blanks/samples performed are within control limits? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.11 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.12 Were any of the samples diluted? If so, were appropriate calculations made to the MDL and/or RL of the final report? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.13 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.14 Were samples properly preserved according to method and QAPP requirements? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.15 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 1.7.16 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |

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| 1.7.17 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| Section 2.0 DATA VERIFICATION FOR HWC STACK GAS SAMPLES |
| 2.1 Parameter: VOLATILE ORGANIC ANALYSIS FOR POHCsMethod(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 2.1.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 2.1.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.3 Has the GC/MS System hardware been tuned to meet BFP tuning criteria within 12 hours prior to sample analysis?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.4 Was the initial calibration performed with a minimum of 5 concentration levels for each target analyte? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.5 Is the %RSD for individual analytes (except CCCs, see question 2.1.8) in the initial calibration below 15%? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.6 Were manual peak integrations performed? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.7 Are the average RRFs for the SPCCs in the initial calibration standards within acceptable limits?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.8 Are the relative response factors for the CCCs in the initial calibration standards within acceptable limits of %RSD?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.9 Has a CCV or 12-hour standard (a.k.a. midpoint calibration standard) been analyzed for every 12 hours of sample analysis? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.10 Do the % D between the initial calibration average RRF and the 12-hours standard continuing calibration RRF meet the following acceptance criteria: +50.0 % for the target volatile compounds & surrogates and +/25.0 % for all other volatile compounds and surrogates ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.11 Do the RRFs of the SPCCs (for the target compounds) in the 12-hours standard meet the initial SPCC criteria for each 12-hours shift?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.12 Do any CCCs in the CCV have a % D between the 12-hour standard and the initial calibration which exceeds the +/-25% criteria? [ ]  Yes [ ]  NoNote: The lab may establish their own criteria (e.g., +/-20%) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.13 Is raw data available to determine if the internal standards are within criteria?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.14 Are the area counts for internal standards for the sample or blank outside of + 50% of the area for the associated 12-hours standard? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.15 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.16 Are the surrogate recovery data present for each batch (method and matrix)?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.17 Is MS/MSD recovery data present? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.18 Were the MS and MSD from samples collected for this work order ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.19 Was a condensate analysis performed?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.20 Was a separate analysis for a breakthrough front and back traps performed?(Each sample pair analyzed) Tenax/Charcoal trap <30% of Tenax trap (NA if < 75 ng of POH on back trap)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.21 Do any method/ field/trip/lab blanks have any positive results for any target analytes? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.22 Were method blanks taken through the entire preparation and analytical process? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.23 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.24 Were any of the samples diluted? If so, were appropriate calculations made to the MDL/ or RL of the final report? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.25 Were all samples prepared and analyzed within required holding time? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.26 Were samples properly preserved according to method and QAPP requirements?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.27 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.28 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |

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| 2.1.29 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| 2.2 Parameter: SEMI-VOLATILE ORGANIC ANALYSISMethod(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 2.2.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 2.2.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.3 Has the GC/MS System hardware been tuned to meet DFTPP or PFK (for CARB 429) tuning criteria within 12 hours prior to sample analysis? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.4 Is the initial calibration performed with a minimum of 5 concentration levels for each target analyte? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.5 Is the % RSD for individual analytes (except CCCs, see question 2.2.9) in initial calibration below %15?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.6 Are the RRT of reported compounds in the ICV within +/-0.0.6 RRT units (minutes) of the RRT for the initial calibration? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.7 Do CCCs in the initial calibration standards meet a % RSD of 30% or less? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.8 Has a mid-range continuing calibration standard containing all calibration compounds and surrogates been analyzed for every 12 hours of sample analysis? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.9 Do any CCCs in the CCV have a % D between the 12-hours standards and the initial calibration which exceeds the +/-25% criteria? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.10 Is raw data available to determine if the internal standards are within criteria? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.11 Do any internal standard retention times vary by more than 30 seconds compare to the 12-hours calibration standard?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.12 Are the area counts for internal standards for the sample or blanks are within the QC limit? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.13 Is the MS/MSD recovery data present? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.14 Were the MS and MSD from samples collected for this work order?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.15 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.16 Are the surrogate recovery data present for each batch (method and matrix)? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.17 Were method blanks taken through the entire preparation and analytical process?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.18 Do any field/ trip/rinsate blanks have any positive results for any semi-volatile target analytes?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.19 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.20 Were any of the samples diluted? If so, were appropriate calculations made to the MDL/or RL of the final report?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.21 Were all samples prepared and analyzed within required holding time? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.22 Were samples properly preserved according to method and QAPP requirements?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.23 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.24 Was a Case Narrative prepared and all deviations noted? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.25 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| 2.3 Parameter: CHLORINATE-DIOXIN/FURAN (PCDD/PCDF) Method(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 2.3.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 2.3.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.3 Is PFK data present and tuned performed at required frequency?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.4 Was initial calibration performed with a minimum of 5 concentration levels for each target analyte?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.5 Is raw data available to determine if all standards (internal and alternate) are within criteria?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.6 Is RR/RRF present for each target analyte and each labeled compound for each calibration standard?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.7 Is the Ion Abundance Ratio present for each target analyte, labeled compound, and internal standards?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.8 Was CCV performed at the beginning and end of each 12 hour shift?RFs within +20% of initial RFs for unlabeled standards (+30% for labeled)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.9 Is [RR/RRF, Mean RR/RRF, %D, Ion Ratio] for the continuing calibration summary present for each target analyte, labeled compound, clean-up standard, and Internal Standard? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.10 Are the RRT and RT for the continuing calibration retention time present for each target analyte and labeled compound, and the RT present for the clean-up and Internal Standards? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.11 Is the MS/ MSD recovery data present?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.12 Were the MS and MSD from samples collected for this work order ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.13 Are the surrogate recovery data present for each batch (method and matrix)? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.14 Were method blanks taken through the entire preparation and analytical process?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.15 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.16 Were any field/ trip/reagent/proof /spike blank analyses performed?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.17 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.18 Were any of the samples diluted? If so, were appropriate calculations made to the MDL and/or RL of the final report? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.19 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.20 Were samples properly preserved according to method and QAPP requirements? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.21 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.22 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.3.23 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| 2.4 Parameter: METALS (SVM/LVM) Method(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 2.4.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 2.4.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.3 Were initial calibrations performed?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.4 Was an ICV, a CB, and a CCV analyzed immediately after the initial or daily calibration?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.5 Was an ICS analyzed at the beginning and end of each analytical run or at a minimum of two every eight hours?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.6 Are concentrations of interfering metals (e.g., Al, Ca, Fe, and Mg) in samples comparable or greater than concentration in the ICS?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.7 Were method blanks taken through the entire preparation and analytical process? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.8 Were any field/ reagent blank analyses performed? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.9 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.10 Is the MS/MSD recovery data present? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.11 Were the MS and MSD from samples collected for this work order? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.12 Was a post-digestion spike performed?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.13 Were duplicate injection of samples performed and if so, were duplicates within + 20% RPD for samples with concentration above detection limit?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.14 Were samples re-analyzed (i.e., 2 more injections), and duplicate injections agree with in 20% RSD?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.15 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.16 Were any of the samples diluted? If so, were appropriate calculations made to the MDL and/or RL of the final report? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.17 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.18 Were samples properly preserved according to method and QAPP requirements? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.19 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.20 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.4.21 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| .5 Parameter: MERCURYMethod(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 2.5.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 2.5.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.3 Is the initial calibration performed within a minimum of 5 concentration levels for each target analyte?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.4 Was an ICV, a CB, and a CCV analyzed immediately after the initial or daily calibration?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.5 Were method blanks taken through the entire preparation and analytical process? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.6 Were any field/ reagent blank analyses performed? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.7 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.8 Is the MS/MSD recovery data present? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.9 Were the MS and MSD from samples collected for this work order? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.10 Was a post-digestion spikes performed?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.11 Were duplicate injections of samples performed and if so, were duplicates within + 20% RPD for samples with concentration above detection limit?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.12 Were samples re-analyzed (i.e., 2 more injections), and the duplicate injections agree with in 20% RSD?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.13 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.14 Were any of the samples diluted? If so, were appropriate calculations made to the MDL and/or RL of the final report? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.15 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.16 Were samples properly preserved according to method and QAPP requirements? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.17 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.5.18 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |

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| 2.5.19 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| 2.6 Parameter: CHROMIUM (VI) Method(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 2.6.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 2.6.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.3 Was the sample train calibrated according to the procedures described in the method? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.4 Were Cr6 emissions collected isokinetically from the source? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.5 Was a leak check performed during the sampling run?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.6 Were any field/ reagent blank analyses performed?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.7 Is method/prep blank summary data present for each batch (generally separated by method and matrix)? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.8 Were interferences check in the sample matrix (ces) analyzed according to the procedures found in the method (See method 0061, Section 3.0)?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.9 Is the MS/MSD recovery data present? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.10 Were the MS and MSD from samples collected for this work order? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.11 Were duplicates for all standards/blanks/samples performed? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.12 Has the MDL been established for the proposed analytes, or has the procedure for determining the DL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.13 Were any of the samples diluted? If so, were appropriate calculations made to the MDL and/or RL of the final report? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.14 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.15 Were samples properly preserved according to method and QAPP requirements? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.16 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.6.17 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |

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| 2.6.18 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| 2.7 Parameter: HCL/CL2Method(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 2.7.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 2.7.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.3 Is the initial calibration performed?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.4 Was a CB and a CCV analyzed immediately after the initial or daily calibration?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.6 Was a leak check performed during the sampling run? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.7 Were method blanks taken through the entire preparation and analytical process? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.1.7 Are the average RRFs for the SPCCs in the initial calibration standards within acceptable limits?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.8 Is the LCS/LCSD recovery data present for each analytical batch? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.9 Were the matrix spike from samples collected for this work order ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.10 Were duplicates for all calibration standards/blanks/samples performed? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.11 Were any field/ reagent blank analyses performed? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.12 Has the MDL been established for the proposed analytes, or has the procedure for determining the MDL / or RL been specified?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.13 Were any of the samples diluted? If so, were appropriate calculations made to the MDL/or RL of the final report? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.14 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.15 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.7.16 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.17 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| 2.8 Parameter: PARTICULATE MATTER (PM) Method(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 2.8.1 Were laboratory analyses performed for this parameter?(If “No,” then STOP here and go to the next parameter)[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 2.8.2 Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix(ces), methods, and parameters associated with the data?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.3 Was the analytical balance calibration performed using either a NIST standard weight or other company’s standard weight? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.4 Was isokinetic sampling maintain an acceptable isokinetic rate throughout the sample run per Sections 8.5 and 8.6 of the Method? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.5 Were temperature around the probe, filters (and cyclone, if used) maintained? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.6 Was a leak check performed during the sampling run? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.7 Were all the filter samples meet the weighing requirements described in the Method? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.8 Were any field/ reagent blank analyses performed? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.9 Were all samples prepared and analyzed within required holding time?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.10 Are COC forms (signed/dated/timed) present for all samples?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.11 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No(Note: All strike outs must be annotated and initialed) | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.8.12 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| 2.9 Parameter: OXYGEN (02), CARBON MONOXIDE (CO), CARBON DIOXIDE (C02) AND TOTAL HYDROCARBONSMethod(s):      Laboratory Name:      Address:       | Date of Sample Collection:      Date of Extraction:      Date of Analysis:       |
| Quality Control Check | Data ValidationMeet QC Criteria | Location of Information(Section/Tab/and Page(s)) | FOR TCEQ USE ONLY(Technically Complete) |
| 2.9.1 Is there a written QA/QC plan (it may be stored electronically but should be available), when was it last updated?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No |       | [ ]  Yes [ ]  No |
| 2.9.2 Are calibration (i.e., drift, error) tests performed for each parameter? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.9.3 Was RA test conducted for each parameter? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.9.4 Prior to the start of the RA, was the reference method data acquisition & handling system were synced to minutes?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.9.5 Were any pre-RATA adjustments made to the CEMS? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.9.6 Was the response time test performed and recorded? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.9.7 Was an Interference Check performed ?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.9.8 Was CO emission standard of 100 ppm HRA, dry basis corrected to 7% oxygen?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.9.9 Prior to sampling, was a stratification performed and passed? [ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.9.10 Was HC emission standard of 10 ppm HRA, dry basis, corrected to 7% oxygen?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.9.11 Was a Case Narrative prepared and all deviations noted?[ ]  Yes [ ]  No | [ ]  Yes [ ]  No[ ]  NA |       | [ ]  Yes [ ]  No[ ]  NA |
| 2.2.12 CASE NARRATIVE - If entries are lengthy or in a Table form, (1) refer in the checklist to a specific section of the reference or (2) use a separate sheet to document the information, indicate “See attachment No.”, and attach the sheet to the checklist. Assign a number to each attachment and indicate the identifier in the space on the checklist. |
| Reference(i.e., Section 2.7.)      | Deviation/Exception(reference deviation from what is in CPT/QAPP & etc.)      | Corrective Action(Provide discussion on the impact that each deviation had on the analytical results)      |

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| ACKNOWLEDGEMENT |
| To the best of my knowledge, the responses to this checklist accurately reflect all information requested concerning the validity of the data. The Comprehensive Performance Test Laboratory Data Report QA/QC checklist hereby submitted for TCEQ review and approval.Name of Facility QA/QC Reviewer:       Date of Review:       Signature of Facility QA/QC Reviewer:       Contact Phone No.:       Approved by:        |

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#### APPENDIX A

A signature page needs to be placed in front of the QAPP (see example below) . Make sure all designated key project organizational managers and coordinators has **signatures**, signatures lines and dates completed before final approval for testing. A signature line for the lab is also needed, and also make sure there is a signature line for each designated responsible Laboratory Persons (i.e. Lab Owner, President or QA/QC Manager) representing **each** **Laboratory** that performs **each** of the **different analytical tests**.

Very Important! Please read and understand the two footnotes prior to signing the signature page.

Generic Example of the Quality Assurance Project Plan Signature Page for Approvals and Distribution:

Title Page

Project Title
(Enter QAPP Title)

Expected Comprehensive Performance Test (CPT)
(Enter Dates)

Project Approvals and Distribution

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
[Name of Key Project Organizational Managers]

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
[Name of Project Coordinator]

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
[Name of QA/QC Coordinator]

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
[Name of Specified Laboratory QA/QC Manager]

Dates

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Date

**Note:** 1) The individuals listed above have received, read, and agreed to the appropriate information pertaining to their project responsibilities listed and provided in this QAPP.

**Note:** 2) The individuals listed above agree that no testing methods to be used in the upcoming plan testing event have been modified. If modifications are planned please identify and explain all sampling and analytical specific method modifications in your designated testing submittal plan. Also, a formal letter should be addressed to EPA Region 6 Kishor Fruitwala PhD, P.E. requesting an approval for the method modification (s) with justification for each method modification as well as a predetermined statement if the modification is felt to be a minor, intermediate or major modification.

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#### APPENDIX B

A Hazardous Waste Combustion Summary Testing Table format is to be filled out by the appropriate facility contact person on each unit for their upcoming CPT/Testing Event according to the Column Nos. 1 - 11 and listed Footnotes 1 – 6 which an example format is provided below:

|  |
| --- |
| COLUMN NO.: |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Unit Name1 | Regulatory Requirements MACT, RCRA etc. 2(Specify Reg. No.)  | Sampling & Analytical Parameters/ Method Numbers  | MACT Emission Standard(numerical limit or range)/ or RCRA Permit Limit 3or both | MTEC4 (Yes or No) | MHWTC5 (Yes or No) | Data in Lieu of (Yes or No) | Test Condition: 16 | Test Condition: 26 | Test LocationWaste Feed (WF)/Stack Gas (SG)  | Purpose of Testing/CommentsAny Modifications? (Yes or No)Any Risk Testing? (Yes or No) |
|       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |       |

**Key: Place an “X” in the designated proposed testing condition (s) in Column Nos. 8 & 9.**

1 Specify name of boiler/industrial boiler/incinerator etc. which will be used during the CPT.

2 Provide the acronym to signify the appropriate regulation requirement.

3 Provide RCRA permit limits if established (please reference if not listed in this table where they are located in the plan).

4  MTEC -- Maximum Theoretical Emissions Concentrations

5 MHWTC -- Maximum Hazardous Waste Thermal Concentrations.

6  Briefly summarize each Test Condition as a footnote.

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#### APPENDIX C

If the facility decides to propose a modification to a method, it needs to be fully explained for all sampling and a request for this method modification approval is required. Approval for method modifications should be requested in a separate letter as well as in the submittal plan (either a CPT or a RCRA Trial Burn Plan). If the proposed modification is a major, intermediate , or a minor modification, the request approval letter should be addressed to:

U.S. EPA Region 6
1445 Ross Ave. Suite 1200
Mail Code 6PD-A
Dallas, Texas 75202

Attention: Kishor Fruitwala, Ph.D., P.E.,

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