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CASE NARRATIVE

CDM Smith

Project Name: Con Ed UTEN Mount Vernon, NY

Project # N/A

Order ID # Q1914

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

12 Solid samples were received on 04/29/2025.

1 Water sample was received on 04/29/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group3 and VOCMS Group3. This data package contains results for VOCMS Group3.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOCMS Group3 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for SS-8 [4-Bromofluorobenzene - 447%, Toluene-d8 - 208%], SS-8MS [4-Bromofluorobenzene - 518%, Toluene-d8 - 225%], SS-8MSD [4-Bromofluorobenzene - 336% and Toluene-d8 - 154%], MS and MSD surrogate failure confirm with parent sample.

The Internal Standards Areas met the acceptable requirements except for SS-6, SS-8, Due to high concentration of compounds, these samples required dilution. Therefore, samples Were reanalyzed with dilution and reported.

The Retention Times were acceptable for all samples.

The MS {Q1914-10MS} with File ID: VY022115.D recoveries met the requirements for all compounds except for 1,2,4-Trimethylbenzene[732%], 1,3,5-Trimethylbenzene[707%], Ethyl Benzene[1566%], Isopropylbenzene[202%], n-Butylbenzene[202%], N-propylbenzene[379%], Sec-butylbenzene[227%], m/p-Xylenes [2399%], o-Xylene [4040%] and Toluene[455%], due to bad Sample matrix interference.



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The MSD {Q1914-11MSD} with File ID: VY022116.D recoveries met the acceptable requirements except for 1,2,4-Trimethylbenzene[343%], 1,3,5-Trimethylbenzene[314%], Ethyl Benzene[914%], Isopropylbenzene[-257%], n-Butylbenzene[0%], N-propylbenzene[0%], p-Isopropyltoluene[0%], Sec-butylbenzene[-57%], m/p-Xylenes [1857%], o-Xylene [2857%] and Toluene[-571%], due to bad sample matrix interference.

The RPD for {Q1914-11MSD} with File ID: VY022116.D met criteria except for 1,2,4-Trimethylbenzene[72%], 1,3,5-Trimethylbenzene[77%], Benzene[24%], Ethyl Benzene[53%], Isopropylbenzene[1669%], Sec-butylbenzene[334%], tert-Butylbenzene[34%], m/p-Xylenes[25%], o-Xylene[34%], N-propylbenzene [200%], p-Isopropyltoluene [200%], n-Butylbenzene [200%] and Toluene[1769%], due to difference in results of MS and MSD.

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration File ID VX045985.D met the requirements except for n-Butylbenzene, is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Samples SS-5, SS-6, SS-6ME, SS-7, SS-8 and SS-8ME were diluted due to high concentrations.

Sample SS-7 analyzed at straight medium level as sample was bad and highly contaminated and required further dilution analysis therefore as a precautionary measure no low level analysis performed for the sample.

E. Additional Comments:

The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____