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CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2514

Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 07/03/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10.

This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. 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 VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike for {VW0709SBS01} with File ID: VW031769.D met requirements for all samples except for cis-1,2-Dichloroethene[124%] is failing high but no positive hit in associate sample while Methylene Chloride[176%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

The Blank Spike for {VY0707SBS01} with File ID: VY022948.D met requirements for all samples except for Methylene Chloride[142%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

The Blank Spike for {VY0708SBS01} with File ID: VY022970.D met requirements for all samples except for Methylene Chloride[149%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.



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The Blank Spike Duplicate for {VY0707SBSD01} with File ID: VY022949.D met requirements for all samples except for Methylene Chloride[172%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

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

The %RSD is greater than 20% in the Initial Calibration method (82W063025S.M) for Methylene Chloride passing on Quadratic Regression.

The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

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.

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_____