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CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2458

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

9 Solid samples were received on 06/27/2025.

1 Water sample was received on 06/27/2025.

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, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

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 MS recoveries met the requirements for all compounds due to matrix interference.

The MSD recoveries met the acceptable requirements due to matrix interference.

The RPD for {PB168716BSD} with File ID: BF143028.D met criteria except for 3,3-Dichlorobenzidine[35%], 4-Chloroaniline[22%], due to difference in results of BS and BSD.

The Blank Spike for {PB168674BS} with File ID: BF142991.D met requirements for all samples except for Butylbenzylphthalate[106%], is failing high but no positive hit in associate samples therefore no corrective action taken.

The Blank Spike for {PB168716BS} with File ID: BF143027.D met requirements for all samples except for Butylbenzylphthalate[106%], is failing high but no positive hit in associate samples therefore no corrective action taken.

The Blank Spike Duplicate met requirements for all samples .



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The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the Requirements.

The Continuous Calibration File ID BF142941.D met the requirements except for 4-Nitrophenol, is marginally biased low therefore no Corrective action was taken.

The Continuous Calibration File ID BF142964.D met the requirements except for Hexachlorocyclopentadiene is marginally biased low therefore no Corrective action was taken.

The Continuous Calibration File ID BF143025.D met the requirements except for 2,4-Dinitrophenol, 4-Nitrophenol and Pentachlorophenol, are biased failing high but no positive hit in associate samples therefore no corrective action taken.

The Tuning criteria met requirements.

Samples TP-63 was diluted due to dirty, concentrated and viscous matrix.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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_____