



CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q1982

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

8 Solid samples were received on 05/07/2025.

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 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 samples were analyzed on instrument BNA_P using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

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 {Q1982-03MS} with File ID: BF142366.D recoveries met the requirements for all compounds except for 4-Nitroaniline[133%], due to matrix interference. No corrective action is required.

The MSD {Q1982-03MSD} with File ID: BF142367.D recoveries met the acceptable requirements except for 4-Nitroaniline[128%], due to matrix interference. No corrective action is required.

The RPD met criteria

The Blank Spike for {PB167953BS} with File ID: BF142419.D met requirements for all samples except for 2,4-Dinitrotoluene[112%], 4-Nitroaniline[112%] and Pentachlorophenol[106%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank Spike for {PB167973BS} with File ID: BP024636.D met requirements for all samples except for Pentachlorophenol[106%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

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

The % RSD is greater than 20% in the Initial Calibration (8270-BF050525.M) for 2-Nitrophenol, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Butylbenzophthalate, Bis(2-ethylhexyl)phthalate, Di-n-octyl phthalate these compound are passing on Linear Regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BP051325.M) for 2,4-Dinitrophenol, 4-Nitrophenol these compound are passing on Linear Regression.

The Continuous Calibration File ID BF142360.D met the requirements except for 2,4-Dinitrophenol and 4-Nitrophenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF142393.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Nitroaniline, 2-Nitrophenol, 3,3-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, 4-Nitrophenol, Di-n-octyl phthalate and Pentachlorophenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF142416.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Nitroaniline, 2-Nitrophenol, 3,3-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline and Pentachlorophenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

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

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.



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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 _____