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CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2514

Test Name: Mercury, Metals ICP-TAL

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 Mercury, Metals ICP-TAL.

C. Analytical Techniques:

The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate (WC-1DUP) analysis met criteria for all compounds except for Lead due to sample matrix interference. The Duplicate (WC-1MSD) analysis met criteria for all compounds except for Manganese and Vanadium due to Chemical Interference during Digestion process.

The Matrix Spike (WC-1MS) analysis met criteria for all compounds except for Antimony, Beryllium, Cobalt, Copper, Selenium, Silver, Sodium and Vanadium due to Chemical Interference during Digestion process.

The Matrix Spike Duplicate (WC-1MSD) analysis met criteria for all compounds except for Antimony, Cobalt, Copper, Selenium, Silver, Sodium and Vanadium due to Chemical Interference during Digestion process.

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

The Calibration met the requirements.

The Serial Dilution (G1(6-12)L) met criteria for all compounds except for Mercury due to sample matrix interference. The Serial Dilution (WC-1L) met criteria for all compounds except for Iron, Magnesium and Manganese due to sample matrix interference.



E. Additional Comments:

The Post Digest Spike (WC-1A) analysis met criteria for all compounds except for Antimony, Copper, Selenium, Silver, Sodium and Vanadium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

In analytical sequence LB136407, The Results was outside of acceptance limit for Aluminum of CCB03 but no any sample associated under this CCB.

In analytical sequence LB136407, The Results was outside of acceptance limit for Silver of CCB04 and CCB05 but no any sample associated under these CCBs.

In analytical sequence LB136434, The Results was outside of acceptance limit for Silver of CCB08 but no any sample associated under this CCB.

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_____