



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Louis Berger U.S., Inc., A WSP Company

Project Name: NYCDDC Phase II SCI Arthur Kill Road CEQR

Project # N/A

Chemtech Project # O1233

Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 01/19/2023.

1 Water sample was received on 01/19/2023.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-PAH, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_D were done using GC column RTX-VMS which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied by SUPELCO, K (VOACARB 3000) , TEKMAR LSC-2000 Concentrator. 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_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator. 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 except for

B-P36B [1,2-Dichloroethane-d4 - 185%],

B-P38A [1,2-Dichloroethane-d4 - 181%],

B-P38ARE [Dibromofluoromethane - 52%], sample was reanalyzed to confirm the failure and reported, while for

B-P37B [1,2-Dichloroethane-d4 - 166%], as corrective action sample was reanalyzed to confirm the failure but not purged therefore sample reported with failure, while for

B-P38C [4-Bromofluorobenzene - 182%] Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported.



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The Internal Standards Areas met the acceptable requirements except for B-P36B, B-P36BRE, B-P38A, B-P38ARE, B-P38B and B-P38BRE samples were reanalyzed to confirm the failure and reported, while for B-P37B, sample reanalyzed to confirm the failure but not purged therefore sample reported with failure.

The Retention Times were acceptable for all samples.

The RPD met criteria .

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 %RSD is greater than 15% in the Initial Calibration method (82D011823S.M) for Dichlorodifluoromethane, Methylene Chloride are passing on Linear Regression.

The %RSD is greater than 15% in the Initial Calibration method (82N011623W.M) for Acetone, Methylene Chloride, 1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene are passing on Linear Regression.

The %RSD is greater than 15% in the Initial Calibration method (82Y011623S.M) for Methylene Chloride, 1,2-Dichloroethane-d4, Toluene-d8 are passing on Linear Regression.

The Continuous Calibration File ID VD075168.D met the requirements except for Acetone is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Sample B-P38C was directly analyzed in methanol as low level soil vial not purged.

Sample B-P38C was diluted due to high concentration.

E. Additional Comments:

This data Package has been revised to correct the Client ID of sample # 08 as per client request.

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 <15% 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 > 15% 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_____