



284 Sheffield Street, Mountainside, NJ 7092, Phone: 908 789 8900, Fax: 908 789 8922

## **CASE NARRATIVE**

### **G Environmental**

**Project Name: Diamond**

**Project # N/A**

**Order ID # Q3740**

**Test Name: VOC-TCLVOA-10,SVOC-TCL BNA,EPH\_NF,PCB,TCLP ICP Metals,TCLP Mercury,Corrosivity,Hexavalent Chromium,Ignitability,pH,Reactive Cyanide,Reactive Sulfide**

#### **A. Number of Samples and Date of Receipt:**

2 Solid samples were received on 11/26/2025.

#### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10,SVOC-TCL BNA,EPH\_NF,PCB,TCLP ICP Metals,TCLP Mercury,Corrosivity,Hexavalent Chromium,Ignitability,pH,Reactive Cyanide,Reactive Sulfide. This data package contains results for VOC-TCLVOA-10(8260D),SVOC-TCL BNA(8270E),EPH\_NF(NJEPH),PCB(8082A),TCLP ICP Metals(6010D),TCLP Mercury(7470A),Corrosivity(9045D),Hexavalent Chromium(7196A),Ignitability(1030),pH(9045D),Reactive Cyanide(9012B),Reactive Sulfide(9034).

#### **C. Analytical Techniques:**

VOC-TCLVOA-10 : 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.

SVOC-TCL BNA : 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 was based on method 8270E and extraction was done based on method 3541.

PCB : The analyses were performed on instrument GCECD\_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

EPH\_NF : The analysis were performed on instrument FID\_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of EPH\_NFs was based on method NJEPH and extraction was done based on method 3541.



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TCLP ICP Metals, TCLP Mercury : The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

Wetchem : The analysis of Ignitability was based on method 1030, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034 and The analysis of Corrosivity, pH was based on method 9045D.

#### **D. QA/ QC Samples:**

The Holding Times were met for all analysis except following Wetchem : WC1 of Corrosivity and pH as this sample received out of holding time.

The Surrogate recoveries were met for all analysis.

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 except following TCLP ICP Metals, TCLP Mercury : The Matrix Spike (D1MS) analysis met criteria for all compounds except for Barium. Due to matrix interference.

The MSD recoveries met the requirements for all compounds except following TCLP ICP Metals, TCLP Mercury : The Matrix Spike Duplicate (D1MSD) analysis met criteria for all compounds except for Barium. Due to matrix interference.

The RPD were met for all analysis except following SVOC-TCL BNA : The RPD for {Q3735-01MSD} with File ID: BF144393.D met criteria except for 2,4-Dinitrophenol[38%], Hexachlorocyclopentadiene[21%] due to difference in MS and MSD concentrations.

PCB : The RPD for {Q3732-01MSD} with File ID: PO115475.D met criteria except for AR1260[18%] due to difference in MSMSD concentrations.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

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

The Initial Calibration met the requirements except following SVOC-TCL BNA : The %RSD is greater than 20% in the Method 8270-BF110525.M for Hexachlorocyclopentadiene, this compound is passing on Quadratic regression.

The Continuous Calibration met the requirements except following VOC-TCLVOA-10 : The Continuous Calibration File ID VY023829.D met the requirements except for 2-Hexanone is failing high but no positive hit in associate sample therefore no corrective action taken.



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SVOC-TCL BNA : The Continuous Calibration File ID BF144382.D met the requirements except for Benzaldehyde. But associated samples have no positive hit for this compound therefore no corrective action was taken.

PCB : The Continuous Calibration File ID PO115479.D met the requirements except for Aroclor-1260(Peak-02) is failing in 2nd column, however it is passed in 1st column therefore no corrective action was taken.

The Continuous Calibration File ID PO115493.D met the requirements except for Aroclor-1016(Peak-04) is failing in 2nd column, however it is passed in 1st column therefore no corrective action was taken.

The Tuning criteria met requirements.

Wetchem : Sample WC1 was diluted due to high concentrations for Hexavalent Chromium.

The Duplicate analysis met criteria for all samples.

The Serial Dilution met the acceptable requirements.

**E. Additional Comments:**

The soil samples results are based on a dry weight basis.

SEMI-VOA : The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

VOC-TCLVOA-10 : 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.

**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\_\_\_\_\_



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