



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

## **CASE NARRATIVE**

**Walsh Construction Company II, LLC**

**Project Name: Construction of Shafts 17B-18B - PN 220084**

**Project # N/A**

**Order ID # Q2487**

**Test Name: SVOC-TCL BNA -20**

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

24 Solid samples were received on 07/01/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Ammonia, COD, Corrosivity, Cyanide, Diesel Range Organics, EPH\_NF, Gasoline Range Organics, Herbicide, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS TAL+CN, Oil and Grease, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SPLP BNA, SPLP Extraction, SPLP Herbicide, SPLP ICP Metals, SPLP Mercury, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SPLP-FULL, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Metals+Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TCLP Metals Group1, TKN, TPH GC, Trivalent Chromium, TS, TVS 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-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. The 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 except for G3(0-6), G1(0-6) and G1(6-12), due to the presence of non-targeted hydrocarbons, which can be observed from the abnormal chromatogram therefore no corrective action was taken.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .



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

The % RSD is greater than 20% in the Initial Calibration (8270-BP070325.M) for 2-Nitrophenol, 2-Nitroaniline, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Butylbenzylphthalate, Di-n-octyl phthalate these compounds are passing on Linear Regression.

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 Continuous Calibration File ID BF143048.D met the requirements except for 2,4-Dinitrophenol and Pentachlorophenol, are biased failing high but no positive hit in associate samples therefore no corrective action taken.

The Continuous Calibration File ID BP025138.D met the requirements except for Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and 3,3-Dichlorobenzidine, are failing high but no positive hit in associate samples therefore no corrective action taken.

The Tuning criteria met requirements.

Samples G4(0-6), G3(0-6), G2(0-6), G1(0-6) and G1(6-12) were diluted due to viscous, dirty and concentrated matrix.

Samples G2(0-6), G2(0-6)DL were diluted due to high concentrations.

#### **E. Additional Comments:**

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.

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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



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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\_\_\_\_\_