



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

## **CASE NARRATIVE**

**EnTech Engineering, P.C.**

**Project Name: Park Avenue Viaduct**

**Project # N/A**

**Chemtech Project # L4291**

**Test Name: TCLP BNA**

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

12 Solid samples were received on 10/06/2020.

2 Water samples were received on 10/06/2020.

### **B. Parameters**

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

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

The samples were analyzed on instrument BNA\_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe 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-GGAThe analysis of TCLP BNA was based on method 8270D and extraction was done based on method 3510 and TCLP extraction method was 1311.

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PAV-B4-100620-0-10 [2-Fluorobiphenyl - 34%].

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {L4291-04MS} with File ID: BG046847.D recoveries met the requirements for all compounds except for Pyridine[60%] due to matrix interference.

The MSD {L4291-04MSD} with File ID: BG046848.D recoveries met the acceptable requirements except for Pyridine[62%] due to matrix interference.

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 15% in the Initial Calibration (Method 8270-BG092220.M) for Benzaldehyde, Benzoic acid compound is passing on Linear Regression..

The Continuous Calibration File ID BG046841.D met the requirements except for 2,4-Dinitrotoluene failing high but no positive hits in associated samples therefore no corrective action taken.

The Continuous Calibration File ID BG046858.D met the requirements except for 2,4-Dinitrotoluene and 2,4,6-Tribromophenol failing high but no positive hits in associated samples therefore no corrective action taken.

The Continuous Calibration File ID BP003588.D met the requirements except for Pentachlorophenol failing high but no positive hits in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.

**E. Additional Comments:**

As per special requirement for this project form-1 are reported in mg/l.

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 <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\_\_\_\_\_