



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

## **CASE NARRATIVE**

**RU2 Engineering, LLC**

**Project Name: NYCDDC SANTWOBR Brooklyn Bridge BBMCR**

**Project # N/A**

**Chemtech Project # Q1216**

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

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

20 Solid samples were received on 01/29/2025.

### **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-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL and VOCMS Group1. 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 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 JPP-21.2-012825, due to matrix interference, and JPP-26.1-012825, The sample was reanalyzed to confirm internal standard failure, both run were reported in hard copy. reanalyzed with the required dilution.

The Retention Times were acceptable for all samples.

The MS {Q1215-03MS} with File ID: BF141573.D recoveries met the requirements for all compounds except for Atrazine[132%], Benzaldehyde[116%], due to Matrix interference therefore no corrective action was taken.

The MSD {Q1215-03MSD} with File ID: BF141574.D recoveries met the acceptable requirements except for Benzaldehyde[116%], due to Matrix interference therefore no corrective action was taken.

The RPD met criteria .

The Blank Spike for {PB166360BS} with File ID: BF141405.D met requirements for all samples except for 3,3-Dichlorobenzidine[41%], Hexachlorocyclopentadiene[191%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank analysis did not indicate the presence of lab contamination.  
The Initial Calibration met the requirements.

The Continuous Calibration File ID BF141531.D met the requirements except for Di-n-octyl phthalate, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

Samples JPP-21.2-012825, JPP-26.2-012825 analyzed with direct 2x dilution due to dirty and viscous matrix.

Sample JPP-26.1-012825 was diluted due to high concentration.

**E. Additional Comments:**

The Sample JPP-21.2-012825, JPP-26.1-012825, JPP-26.1-012825DL, JPP-26.2-012825 have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

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.

---

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\_\_\_\_\_