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## **CASE NARRATIVE**

### **Portal Partners Tri-Venture**

**Project Name: Amtrak Sawtooth Bridges 2025**

**Project # N/A**

**Order ID # Q2177**

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

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

7 Solid samples were received on 06/02/2025.

2 Water samples were received on 06/02/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, 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, Trivalent Chromium, VOC-TCLVOA-10 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 3510.

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for, EB05312025 [2-Fluorobiphenyl - 18%, 2-Fluorophenol - 11%, Nitrobenzene-d5 - 18%, Phenol-d6 - 7% and Terphenyl-d14 - 15%]. Due to the limited volume of this water sample it cannot be re-extracted, Hence data reported.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q2194-03MS} with File ID: BF142629.D recoveries met the requirements for all compounds except for 3-Nitroaniline[62%], 4-Chloroaniline[52%] . This compound did not meet the NJDKQP criteria but met the in-house criteria.

The MSD {Q2194-03MSD} with File ID: BF142630.D recoveries met the acceptable requirements except for 3-Nitroaniline[61%], 4-Chloroaniline[49%] . This compound did not meet the NJDKQP criteria but met the in-house criteria.

The RPD met criteria.

The Blank Spike for {PB168285BS} with File ID: BF142727.D met requirements for all samples except for 3,3-Dichlorobenzidine[43%], 3-Nitroaniline[52%] and 4-Chloroaniline[29%], This compound did not meet the NJDKQP criteria but met the in-house criteria.

The Blank Spike Duplicate for {PB168285BSD} with File ID: BF142728.D met requirements for all samples except for 3,3-Dichlorobenzidine[44%], 3-Nitroaniline[51%] and 4-Chloroaniline[29%], This compound did not meet the NJDKQP criteria but met the in-house criteria.

The Blank Spike for {PB168259BS} with File ID: BF142750.D met requirements for all samples except for 3,3-Dichlorobenzidine[56%], 3-Nitroaniline[54%] and 4-Chloroaniline[41%], This compound did not meet the NJDKQP criteria but met the in-house criteria.

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

The % RSD is greater than 20% in the Initial Calibration (8270-BP060625.M) for 2,4-Dinitrophenol, 4-Nitrophenol these compound are passing on Linear Regression.

The Continuous Calibration File ID BF142640.D met the requirements except for 4-Nitrophenol, Bis(2-ethylhexyl)phthalate and Di-n-octyl phthalate, Associated Samples does not have hit for this compounds, therefor no further corrective action was taken.

The Continuous Calibration File ID BF142748.D met the requirements except for 2,4-Dinitrophenol, Associated Samples does not have hit for this compounds, therefor no further corrective action was taken.

The Tuning criteria met requirements.

Sample B-187-SB01 was diluted due to high concentration.

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

Sample EB05312025 used limited volume as sample Received with split volume.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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



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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 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\_\_\_\_\_