284 Sheffield Street, Mountainside, NJ 07092
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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1194
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 01/27/2025.
3 Water samples were received on 01/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: EPH, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, SVOC-TCL BNA -20, 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_G using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe 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.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q1194-04MS} with File ID: BF141352.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[58%], 3-Nitroaniline[54%], 4-Chloroaniline[17%], Benzaldehyde[13%], Benzo(g,h,i)perylene[58%], Dibenz(a,h)anthracene[69%], Indeno(1,2,3-cd)pyrene[69%] and Pyrene[69%], these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The MSD {Q1194-04MSD} with File ID: BF141353.D recoveries met the acceptable requirements except for 3,3-Dichlorobenzidine[62%], 3-Nitroaniline[54%], 4-Chloroaniline[23%], Benzaldehyde[13%], Benzo(g,h,i)perylene[58%], Dibenz(a,h)anthracene[69%], Indeno(1,2,3-cd)pyrene[69%] and Pyrene[65%], these compounds did not meet the NJDKQP criteria but met the in-house criteria.

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The RPD for {Q1194-04MSD} with File ID: BF141353.D met criteria except for 4-Chloroaniline [30%], this compound did not meet the NJDKQP criteria but met the in-house criteria.

The Blank Spike for {PB166294BS} with File ID: BF141439.D met requirements for all samples except for 3,3-Dichlorobenzidine[47%], 3-Nitroaniline[53%], 4-Chloroaniline[42%], Benzaldehyde[12%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, while Hexachlorocyclopentadiene[185%], this compound did not meet the NJDKQP criteria and in-house criteria, the associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank Spike for {PB166339BS} with File ID: BF141442.D met requirements for all samples except for 3,3-Dichlorobenzidine[46%], 4-Chloroaniline[39%],3 Nitroaniline[53%], Benzaldehyde[13%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, while Hexachlorocyclopentadiene[190%], this compound did not meet the NJDKQP criteria and in-house criteria, the associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank Spike Duplicate for {PB166339BSD} with File ID: BF141443.D met requirements for all samples except for 3,3-Dichlorobenzidine[47%], 3-Nitroaniline[54%], 4-Chloroaniline[37%], Benzaldehyde[12%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, Hexachlorocyclopentadiene[190%], this compound did not meet the NJDKQP criteria and in-house criteria, 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 BF141336.D met the requirements except for 4-Nitrophenol and Pentachlorophenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID File ID BF141410.D met the requirements except for 4,6-Dinitro-2-methylphenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:
Sample # EB was received with limited volume.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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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_____