

CASE NARRATIVE

Portal Partners Tri-Venture

Project Name: Amtrak Sawtooth Bridges 2025

Project # N/A

Order ID # Q1901

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

9 Solid samples were received on 04/28/2025.

2 Water samples were received on 04/28/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, 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_M 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 {Q1901-02MS} with File ID: BF142269.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[65%], 3-Nitroaniline[50%], 4-Chloroaniline[21%], Benzo(g,h,i)perylene[65%] and Pyrene[64%], these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The MSD {Q1901-02MSD} with File ID: BF142270.D recoveries met the acceptable requirements except for 3-Nitroaniline[50%], 4-Chloroaniline[24%], Benzo(g,h,i)perylene[60%], Dibenz(a,h)anthracene[65%], Indeno(1,2,3-cd)pyrene[65%]

and Pyrene[64%], these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The RPD for {PB167798BSD} with File ID: BF142253.D met criteria except for 4-Chloroaniline[31%], due to difference in results of BS and BSD.

The Blank Spike for {PB167798BS} with File ID: BF142252.D met requirements for all samples except for 3-Nitroaniline[39%], 4-Chloroaniline[13%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, while 3,3-Dichlorobenzidine [23%], this compound did not meet the NJDKQP criteria and in-house criteria but marginally biased low therefore no corrective action was taken.

The Blank Spike Duplicate for {PB167798BSD} with File ID: BF142253.D met requirements for all samples except for 3-Nitroaniline[45%] and 4-Chloroaniline[18%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, while 3,3-Dichlorobenzidine[28%], this compound did not meet the NJDKQP criteria and in-house criteria but marginally biased low therefore no corrective action was taken.

The Blank Spike for {PB167779BS} with File ID: BM050064.D met requirements for all samples except for 3,3-Dichlorobenzidine[49%], 3-Nitroaniline[47%] and 4-Chloroaniline[36%], these compounds 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 (Method 8270-BF043025.M) for Di-n-octyl phthalate, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, 2,4-Dinitrotoluene, 3-Nitroaniline, 2,6-Dinitrotoluene, 2-Nitroaniline, these Compounds are passing on Linear regression, and 2,4-Dinitrophenol, 2-Nitrophenol, these compound are passing on Quadratic regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BM042825.M) for 2,4-Dinitrophenol and 4-Nitrophenol these compound are passing on Linear Regression.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Samples B-170-SB01 analyzed with direct 5x dilution due to dirty, concentrated and viscous matrix.

E. Additional Comments:

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 <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.

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_____