

CASE NARRATIVE

Portal Partners Tri-Venture

Project Name: Amtrak Sawtooth Bridges 2024

Project # N/A

Chemtech Project # P4578

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

6 Solid samples were received on 10/25/2024.

3 Water samples were received on 10/25/2024.

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_E 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_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe 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

WB-305-SW [2-Fluorobiphenyl - 19%, 2-Fluorophenol - 9%, Nitrobenzene-d5 - 17%, Phenol-d6 - 8%, Terphenyl-d14 - 23%],

WB-305-SWRE [2-Fluorobiphenyl - 17%, 2-Fluorophenol - 9%, Nitrobenzene-d5 - 17%, Phenol-d6 - 9%, Terphenyl-d14 - 24%],

WB-305-SW-1RE [2-Fluorobiphenyl - 23%, 2-Fluorophenol - 14%, Nitrobenzene-d5 - 24%, Phenol-d6 - 12%, Terphenyl-d14 - 27%] these surrogates did not meet the

NJDKQP criteria and in-house criteria While

WB-305-SW [2,4,6-Tribromophenol - 20%],

WB-305-SWRE [2,4,6-Tribromophenol - 23%],

WB-305-SW-1 [Nitrobenzene-d5 - 43%, 2-Fluorobiphenyl - 46%],

WB-305-SW-1RE [2,4,6-Tribromophenol - 28%], these surrogates did not meet the in-house criteria but met the NJDKQP criteria, all samples were reanalyzed to confirm the failure and reported.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {P4561-05MS} with File ID: BF140105.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[58%], 3-Nitroaniline[50%], 4,6-Dinitro-2-methylphenol[142%], 4-Chloroaniline[23%], Benzo(g,h,i)perylene[69%] and Hexachlorocyclopentadiene[170%] these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The MSD {P4561-05MSD} with File ID: BF140106.D recoveries met the acceptable requirements except for 3,3-Dichlorobenzidine[61%], 3-Nitroaniline[49%], 4,6-Dinitro-2-methylphenol[142%], 4-Chloroaniline[23%], Benzo(g,h,i)perylene[68%] and Hexachlorocyclopentadiene[161%] these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The RPD met criteria .

The Blank Spike for {PB164533BS} with File ID: BE101427.D met requirements for all samples except for 4-Chloroaniline[66%] this compound did not meet the NJDKQP criteria but met the in-house criteria while Hexachlorocyclopentadiene[200%] this compound did not meet the NJDKQP criteria and in-house criteria, are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BE102824.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BF101824.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The Continuous Calibration File ID BF140100.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BF140113.D met the requirements except for 2,4-Dinitrophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, Bis(2-ethylhexyl)phthalate and Di-n-octyl phthalate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BF140152.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate and Di-n-octyl phthalate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BF140176.D met the requirements except for 2,4-Dinitrophenol,2,4-Dinitrotoluene,2-Nitrophenol,4,6-Dinitro-2-methylphenol,4-Nitroaniline,Bis(2-ethylhexyl)phthalate,Butylbenzylphthalate and Di-n-octyl phthalate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BF140200.D met the requirements except for 2,4-Dinitrophenol,2,4-Dinitrotoluene,2-Nitrophenol,4,6-Dinitro-2-methylphenol,4-Nitroaniline,4-Nitrophenol,Bis(2-ethylhexyl)phthalate,Butylbenzylphthalate and Di-n-octyl phthalate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:

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 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_____