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CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager# Ernie Wu

Order ID # Q1985

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

2 Water samples were received on 05/08/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, pH, SVOC-SIMGroup1, SVOC-TCL BNA -20, TSS 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 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 {Q1993-02MS} with File ID: BF142388.D recoveries met the requirements for all compounds except for 1,4-Dioxane[35%] and Diethylphthalate[140%], due to matrix interference.

The MSD {Q1993-03MSD} with File ID: BF142389.D recoveries met the acceptable requirements except for 1,4-Dioxane[36%] and Diethylphthalate[145%], due to matrix interference.

The RPD met criteria .

The Blank Spike for {PB167951BS} with File ID: BF142386.D met requirements for all samples except for 1,4-Dioxane[64%], 4-Chloroaniline[18%], Recovery of these compounds were marginally biased low, Therefore no corrective action was taken.

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



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The % RSD is greater than 20% in the Initial Calibration (8270-BF050525.M) for 2-Nitrophenol, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Butylbenzophthalate, Bis(2-ethylhexyl)phthalate, Di-n-octyl phthalate these compound are passing on Linear Regression.

The Continuous Calibration File ID BF142384.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitrophenol, 3,3-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, 4-Nitrophenol and Pentachlorophenol, are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

The Sample RW8-BW-20250507 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.

The not QT review data is reported in the Miscellaneous.

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_____