

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q2645

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

1 Solid sample was received on 07/18/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20. 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 were met for all analysis except for RW5B-CARBON-20250716 [2,4,6-Tribromophenol - 3%, 2-Fluorobiphenyl - 7%, 2-Fluorophenol - 2%, Nitrobenzene-d5 - 9%, Phenol-d6 - 3% and Terphenyl-d14 - 4%]. The similar failure in the Pest / PCB sample was also observed. The surrogates in the re-extracted Pest/PCB sample failed again, confirming the matrix interference. Therefore, the sample RW5B-CARBON-20250716 was not re-extracted and also not re-analyzed, as the reanalysis would result in the same recoveries of the surrogates. Therefore no further corrective action was taken.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS {Q2649-09MS} with File ID: BF143219.D recoveries met the requirements for all compounds except for 4-Chloroaniline[13%]. Recovery failed due to matrix interference. Therefore no further corrective action was taken.

The MSD {Q2649-09MSD} with File ID: BF143220.D recoveries met the requirements for all compounds except for 4-Chloroaniline[16%]. Recovery failed due to matrix interference. Therefore no further corrective action was taken.



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The RPD for {Q2649-09MSD} with File ID: BF143220.D met criteria except for 4-Chloroaniline[21%]. RPD failed due to result difference between MS and MSD, therefore no further corrective action was taken.

The Blank Spike met requirements for all compounds.

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

The %RSD is greater than 20% for certain compounds in the Initial Calibration (Method 8270-BF071725.M) for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol these Compound is passing on Linear Regression.

The Continuous Calibration met the requirements.

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 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.

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_____