CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager: Ernie Wu
Chemtech Project # Q1069
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 01/09/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested:
Flash Point, Ignitability, PCB, pH, SVOC-TCL BNA -20, TCLP Extraction, TCLP
Mercury, TCLP Metal, TCLP VOA, TCLP ZHE Extraction and TCLPMetals 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 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for TR-06-1-10-2025MS
[2,4,6-Tribromophenol - 22%, Terphenyl-d14 - 45%], TR-06-1-10-2025MSD [2,4,6-
Tribromophenol - 25%, Terphenyl-d14 - 52%],due to matrix interference and no
corrective action is needed, and
RW7B-CARBON-20250109 [2,4,6-Tribromophenol - 6%, 2-Fluorobiphenyl - 9%, 2-
Fluorophenol - 5%, Nitrobenzene-d5 - 9%, Phenol-d6 - 5%, Terphenyl-d14 - 8%],
RW7B-CARBON-20250109RX [2,4,6-Tribromophenol - 34%, 2-Fluorobiphenyl - 39%,
2-Fluorophenol - 33%, Phenol-d6 - 32% and Terphenyl-d14 - 29%]Failure sample for
surrogate was reanalyzed to confirm the failure and both run were reported in Hard Copy.

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

The MS {Q1068-01MS} with File ID: BF141175.D recoveries met the requirements for
all compounds except for 1,4-Dioxane[48%], 2,3,4,6-Tetrachlorophenol[23%], 2,4,6-
Trichlorophenol[35%], 2,4-Dinitrophenol[0%], 4,6-Dinitro-2-methylphenol[12%], 4-
Nitrophenol[21%] and Pentachlorophenol[24%], due to matrix interference and no
corrective action is needed. .

The MSD {Q1068-01MSD} with File ID: BF141176.D recoveries met the acceptable requirements except for 1,4-Dioxane[49%], 2,3,4,6-Tetrachlorophenol[26%], 2,4,6-Trichlorophenol[35%], 2,4-Dinitrophenol[0%], 4,6-Dinitro-2-methylphenol[9%], 4-Nitrophenol[25%] and Pentachlorophenol[23%], due to matrix interference and no corrective action is needed.

The RPD for {Q1068-01MSD} with File ID: BF141176.D met criteria except for 4,6-Dinitro-2-methylphenol[29%], Hexachlorocyclopentadiene[37%], due to difference in results of MS and MSD .

The Blank Spike for {PB166035BS} with File ID: BF141165.D met requirements for all samples except for Hexachlorocyclopentadiene[179%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank Spike for {PB166061BS} with File ID: BF141172.D met requirements for all samples except for Atrazine[129%], Hexachlorocyclopentadiene[191%],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 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.
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_____