CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: CTO WE13
Project Manager: David Brayack
Chemtech Project # M2783
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
22 Water samples were received on 06/18/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested:
SVOCMS Group1 and VOCMS Group1. This data package contains results for
SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles
Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe
analysis of SVOCMS Group1 was based on method 8270-Modified 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 RE134D1-20210617 [2-
Fluorobiphenyl - 108%, Terphenyl-d14 - 135%], RE134D2-20210617 [2-Fluorobiphenyl
- 110%], RE134D4-20210617 [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 142%],
RE114D1-20210617 [2-Fluorobiphenyl - 113%, Terphenyl-d14 - 135%], RE114D2-
20210617 [2-Fluorobiphenyl - 110%], RE115D2-20210617 [2-Fluorobiphenyl - 113%,
Terphenyl-d14 - 138%], RE132D2-20210618 [2-Fluorobiphenyl - 108%], RE132D4-
20210618DL [Nitrobenzene-d5 - 120%], RE132D5-20210618 [Fluorobiphenyl - 145%,
Terphenyl-d14 - 168%] and PB137316BL [Terphenyl-d14 - 152%] The above failure
surrogates are not associated with the client list, therefore no corrective action was taken.
The Internal Standards Areas met the acceptable requirements except for RE132D5-
20210618 The above failure internal standard is not associated with the client list,
therefore no corrective action was taken..
The Retention Times were acceptable for all samples.
The MS {M2783-19MS} with File ID: BN015268.D recoveries met the requirements for
all compounds except for 1,4-Dioxane[850%] due to sample matrix interference.
The MSD {M2783-20MSD} with File ID: BN015269.D recoveries met the acceptable
requirements except for 1,4-Dioxane[775%] due to sample matrix interference..
The RPD met criteria .
The Blank Spike met requirements for all samples .

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 8270E-BN062921.M) Compound 2,4,6-Tribromophenol, is passing on Linear Regression The Continuous Calibration File ID BN015265.D met the requirements except for 2-Fluorophenol,Nitrobenzene-d5 and Phenol-d6 The above failure compounds were not associated with the client list therefore no corrective action was taken. .
The Continuous Calibration File ID BN015284.D met the requirements except for Nitrobenzene-d5 The above failure compounds were not associated with the client list therefore no corrective action was taken.
The Tuning criteria met requirements.

Samples RE134D2-20210617, RE134D3-20210617, RE132D2-20210618, RE132D3-20210618, RE132D4-20210618, RE132D5-20210618 and RE132D6-20210618 were diluted due to high concentrations.

The sample # RE132D4-20210618MS and RE132D4-20210618MS is failing for 1,4-Dioxane and the original sample(RE132D4-20210618) is reported with M flag for this compound.

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 <15% 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 > 15% 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_____