

SDG NARRATIVE**LAB NAME: CHEMTECH CONSULTING GROUP****CASE: 49862****SDG: AQAA21****CONTRACT: 68HERH20D0011****LAB CODE: CHM****CHEMTECH PROJECT: N1024****MODIFICATION REF. NUMBER: NA**

| Sample ID | EPA Sample ID | pH |
|-----------|---------------|----|
| N1024-01 | AQAA21 | |
| N1024-02 | AQAA22 | |

2 Water samples were delivered to the laboratory intact on 01/05/2022.

Test requested on the Chain of Custody was Semivolatile Organic by Method SFAM01.1.

Sample Tags were not received with the samples.

The temperature of the samples was measured using an I R Gun. The samples temperature was 2.3 degree Celsius for the samples received on 01/05/2022.

Shipping Discrepancies and/or QC issues:

Issue 1: Sample tags were not received with samples at the laboratory. Sample tag numbers may or may not be listed on the TR/COC.

Resolutions 1: The laboratory will note the samples with the missing tags in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all samples received for this Case.

Semivolatiles :

The samples were analyzed on instrument BNA_G using GC Column ZB-GR Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA.

Semis volatile Organic samples for Water were extracted by Method SFAM01.1 on 01/05/22, the analysis of SVOCMS Group4 was based on Method SFAM01.1_SVOC.

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 Blank Spike for {PB141855BS} recoveries met the requirements for all compounds.

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.

See **Manual Integration report** for the manual integration information at the end of the case Narrative.

Concentration of Water Sample:

$$\text{Concentration ug/L} = \frac{(A_x) (I_s) (V_t) (DF) (GPC)}{(A_{is}) (RRF) (V_o) (V_i)}$$

Where,

A_x = Area of the characteristic ion for the compound to be measured.

A_{is} = Area of the characteristic ion for the internal standard.

I_s = Amount of internal standard injected in ng.

V_o = Volume of water extracted in mL.

V_i = Volume of extract injected in uL.

V_t = Volume of the concentrated extract in uL

RRF = Mean Relative Response Factor determined from the initial calibration standard.

$GPC = \frac{V_{in}}{V_{out}}$ = GPC factor (If no GPC is performed, GPC=1)

No positive target compounds were detected in the samples.

RRF Calculation of standard 20 ppb **1,4-Dioxane** with instrument G for method 01/06/2022.

$$\begin{aligned} \text{RRF} &= \frac{\text{Area of compound}}{\text{Area of Internal Standard}} \times \frac{\text{Conc. of Internal Standard}}{\text{Conc. of Compound}} \\ &= 6566/25532 \times 20/8 \\ &= 0.643 \text{ (Reported RRF)} \end{aligned}$$

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 _____ Name: Nimisha Pandya.

Date: _____ Title: Document Control Officer.