



SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC

CASE: 51814

SDG: E1L51

CONTRACT: 68HERH20D0011

LAB CODE: ACE

CHEMTECH PROJECT: P4557

MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pH
P4557-01	E1L51	
P4557-02	E1L52	

02 Water samples were delivered to the laboratory intact on 10/25/2024.

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

The temperature of the samples was measured using an I R Gun. The samples temperature was 2.8 degree Celsius for the samples received on 10/25/2024.

Shipping Discrepancies and/or QC issues:

Issue 01: The laboratory received two samples for SVOA analysis ,but no extra volume was provided for laboratory QC. The laboratory would like to proceed without Laboratory QC for SDG E1L51.

Resolution 01: Per Region 5, the laboratory will note the issue in the SDG Narrative and proceed without Laboratory QC.

Semivolatiles:

The samples were analyzed on instrument BNA_M 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 sample for water sample was extracted by Method SFAM01.1 on 10/29/2024, The analysis of SVOC-SFAM was based on method SFAM01.1_SVOC.

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable except criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The Blank Spike for {PB164514BS} recoveries met the requirements for all compounds.



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

The Tuning criteria met the requirements.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

Concentration of Water Sample:

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)

V_{out} = Volume of extract collected after GPC cleanup.

No positive target compounds were detected in the samples.

RRF Calculation of standard 20 ppb for **Naphthalene** with M instrument for method 10/26/2024.

RRF = $\frac{\text{Area of compound}}{\text{Area of Internal Standard}} \times \frac{\text{Conc. of Internal Standard}}{\text{Conc. of Compound}}$

= 1107258/968895 X 20/20

= 1.143 (Reported RRF)

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.