

SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC CASE: 51724 SDG: GCNW3 CONTRACT: 68HERH20D0011 LAB CODE: ACE CHEMTECH PROJECT: P4532 MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pН
P4532-01	GCNW3	
P4532-02MS	GCNW3MS	
P4532-03MSD	GCNW3MSD	
P4532-04	GCNW4	
P4532-05	GCNW5	
P4532-06	GCNW7	
P4532-07	GCNW8	
P4532-08	GCNW9	
P4532-09	GCNX0	
P4532-10	GCNX1	
P4532-11	GCNX2	
P4532-12	GCNX3	
P4532-13	GCNX4	
P4532-14	GCNX5	
P4532-15	GCNX6	
P4532-16	GCNX7	
P4532-17	GCNX8	
P4532-18	GCNZ6	

18 Water samples were delivered to the laboratory intact on 10/24/2024.

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, 2.6, 2.4, 2.9 degree Celsius for the samples received on 10/24/2024.

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.



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The samples were analyzed on instrument BNA_P 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 10/24/2024, 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 except criteria. The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples. The MS {GCNW3MS} recovery met the requirements for all compounds. The MSD {GCNW3MSD} recovery met the requirements for all compounds. The RPD {GCNW3MSD} RPD met the requirements for all compounds. The Blank Spike for {PB164386BS} recoveries met the requirements for all compounds. The Blank Spike for {PB164387BS} recoveries met the requirements for all compounds. The Blank Spike for {PB164388BS} recoveries met the requirements for all compounds. The Blank Spike for {PB164388BS} recoveries met the requirements for all compounds. The Blank Spike for {PB164388BS} recoveries met the requirements for all compounds. The Blank Spike for {PB164388BS} recoveries met the requirements for all compounds. The Blank Spike for {PB164388BS} recoveries met the requirements for all compounds. The Blank analysis did not indicate the presence of lab contamination. The Tuning criteria met requirements. The Initial Calibration met requirements. The Continuous Calibration met requirements.

PB164388BL analyzed twice in different instrument, first time in BNA_P and Second time in BNA_M. However our sample associated with this BL run in BNA_P, so BNA_M instrument raw data reported as Screening Data in the package.

Concentration of Water Sample:

Concentration ug/L = (Ax) (Is) (Vt) (DF) (GPC)

(Ais) (RRF) (Vo) (Vi)

Where,

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

Ais = Area of the characteristic ion for the internal standard.

Is = Amount of internal standard injected in ng.

Vo = Volume of water extracted in mL.

Vi = Volume of extract injected in uL.

Vt = Volume of the concentrated extract in uL

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

 $GPC = \underline{Vin} = GPC \text{ factor (If no GPC is performed, GPC=1)}$

Vout = Volume of extract collected after GPC cleanup.



Ax = 27136 Ais = 177559 Is = 20 DF = 1 Vo = 1000 Vi = 1 Vt = 1000 RRF = 0.537 GPC = 1

Concentration ug/L = $\frac{(27136)(20)(1000)(1)(1)}{(177559)(0.537)(1000)(1)}$

= 5.7 ug/L

RRF Calculation of standard 20 ppb for 1,4-Dioxane with M instrument for method 10/26/2024.

RRF=	Area of compound /	Х	Conc. of Internal Standard /
	Area of Internal Standard	l	Conc. of Compound

= 49556/227528 X 20/8

= 0.545 (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.