



SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC

CASE: 51844

SDG: JYAB0

CONTRACT: 68HERH20D0011

LAB CODE: ACE

LAB ORDER ID: P4628

MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pH
P4628-01	JYAB0	
P4628-02	JYAB1	
P4628-03	JYAB2	
P4628-04	JYAB3	
P4628-05	JYAB4	
P4628-06	JYAB5	

06 Water samples were delivered to the laboratory intact on 10/30/2024.

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

The temperature of the samples was measured using an I R Gun. The samples temperature was 2.7, 2.3, 2.6 degree Celsius for the samples received on 10/30/2024.

Shipping Discrepancies and/or QC issues:

Issue 01: The laboratory received water samples for ARO analysis but there was not a sample designated for laboratory QC. Please advise on how the laboratory may proceed.

Resolution 01: Per Region 10, the laboratory may proceed without laboratory QC. Please note the issue in the SDG Narrative and proceed with analysis of the samples.

Issue 02: The COC received by the laboratory includes the site name for the Case. The laboratory has confirmed that there is no conflict of interest.

Resolution 02: In accordance with previous direction from Region 10, the laboratory will note in the SDG Narrative that there is no conflict of interest and proceed with the analysis of the samples. This resolution will be applied to all COCs received for this Case.

Aroclors:

The analyses were performed on instrument GCECD_R. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.

The sample was analyzed on a single injection dual column system. To distinguish the second column analysis from the first column a -2 suffix was added to the file id on the form 1. These refer to forms where both columns are reported. Form 1s for the IBLK and ALCS are referenced as IBLK(1)/IBLK(2) and ALCS01(1)/ALCS01(2) respectively.

Aroclor sample was extracted by Method SFAM01.1 on 10/31/2024 and analyzed on 10/31/2024, 11/01/2024 All the samples were subjected to a Sulfuric acid cleanup. The sample was extracted and analyzed within contractual holding time.

The Surrogate recoveries met the acceptable criteria except for JYAB5 [Tetrachloro-m-xylene(1)-1383%, Tetrachloro-m-xylene(2), – 4196%], The SOW allows one surrogate to fail to meet the criteria per column. ((Please See Section 11.3.6 of Exhibit D Aroclor Analysis).

The Laboratory Control Sample met requirements.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuing Calibrations met the requirements.
The Retention Times were acceptable for all samples.

See **Manual Integration report** for the manual integration information at the end of the Case narrative.

Calculation for Concentration in Water Samples:

$$\text{Concentration ug/L} = \frac{(Ax) (Vt) (DF) (GPC)}{(CF) (Vo) (Vi)}$$

Where,

Ax = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

Vo = Volume of water extracted in mL.

Vi = Volume of extract injected in uL.

Vt = Volume of the concentrated extract in uL

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

Vin = Volume of extract loaded onto GPC column.

Vout = Volume of extract collected after GPC cleanup.



DF = Dilution Factor.

Example of AR1260 calculation for Peak 1

Calibration factor Peak 1 100ppb ISTD= $\frac{\text{peak area}}{\text{Mass injected ng}}$
Column1

$$= \frac{4574028}{0.100}$$

= 45740280 calibration factor for Peak 1 100ppb

Average of 5 peaks = 39861589

No target **Aroclors** were detected in the samples.

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.