SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51817 MA No.: SDG No.: MYE5L3

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MYE5L3	P4580-01		X		
MYE5L4	P4580-02		X		
MYE5L5	P4580-03		X		
MYE5L6	P4580-04		X		
MYE5L7	P4580-05		X		
MYE5L8	P4580-06		X		
MYE5L9	P4580-07		X		
MYE5M0	P4580-08		X		
MYE5M1	P4580-09		X		
MYE5M2	P4580-10		X		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

SDG # MYE5L3

68HERH20D0011

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USEPA CLP COC (LAB COPY)
DateShipped: 10/25/2024
CarrierName: FedEx
AirbillNo: 7793 ~~0735 0521~~ 0515140F

CHAIN OF CUSTODY RECORD

Case #: 51817
Cooler #: EPA Cooler 12

No: 9-101424-084600-0146
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-3151

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
RB-20240429	MYE5L3	Water (Blanks Only)/ REAC	Grab	CLP ICP-MS-11+(21)	9-8371 (HNO3 pH<2) (1)	IKM Staging Area	04/29/2024 17:05	
RB-20240423	MYE5L4	Water (Blanks Only)/ REAC	Grab	CLP ICP-MS-11+(21)	9-8372 (HNO3 pH<2) (1)	IKM Staging Area	04/23/2024 18:00	
RB-20240424	MYE5L5	Water (Blanks Only)/ REAC	Grab	CLP ICP-MS-11+(21)	9-8373 (HNO3 pH<2) (1)	IKM Staging Area	04/24/2024 17:30	
RB-20240425	MYE5L6	Water (Blanks Only)/ REAC	Grab	CLP ICP-MS-11+(21)	9-8374 (HNO3 pH<2) (1)	IKM Staging Area	04/25/2024 17:45	
RB-20240426	MYE5L7	Water (Blanks Only)/ REAC	Grab	CLP ICP-MS-11+(21)	9-8375 (HNO3 pH<2) (1)	IKM Staging Area	04/26/2024 16:41	
RB-20240427	MYE5L8	Water (Blanks Only)/ REAC	Grab	CLP ICP-MS-11+(21)	9-8376 (HNO3 pH<2) (1)	IKM Staging Area	04/27/2024 11:32	
RB-20240430	MYE5L9	Water (Blanks Only)/ REAC	Grab	CLP ICP-MS-11+(21)	9-8377 (HNO3 pH<2) (1)	IKM Staging Area	04/30/2024 17:28	
RB-20240501	MYE5M0	Water (Blanks Only)/ REAC	Grab	CLP ICP-MS-11+(21)	9-8378 (HNO3 pH<2) (1)	IKM Staging Area	05/01/2024 16:55	
RB-20240502	MYE5M1	Water (Blanks Only)/ REAC	Grab	CLP ICP-MS-11+(21)	9-8379 (HNO3 pH<2) (1)	IKM Staging Area	05/02/2024 18:30	
RB-20240503	MYE5M2	Water (Blanks Only)/ REAC	Grab	CLP ICP-MS-11+(21)	9-8380 (HNO3 pH<2) (1)	IKM Staging Area	05/03/2024 10:30	

Special Instructions: ICP-MS 11+ Metals: Ag, Al, As, Ba,Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Ni, Pb, Sb, Se,Tl, V, Zn 057866

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: CLP ICP-MS-11+=CLP ICP-MS 11 and additional metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	RG ESAT	10/18/24 1600		0900 10.26.2024	Temp 16.1°C IR Gun#1
					Custody seal intact
					Temp BKL Not present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) GORGE NELSON		Log-in Date **10/26/2024**
Received By (Signature)		
Case Number 51817	SDG No. MYE5L3	MA No. N/A

Remarks:	
Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	057866
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	~~779307359521~~ 779307751408 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	16.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/26/2024
12.Time Received	09:00

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MYE5L3	1.9	9-8371	P4580-01	Intact
2	MYE5L4	1.9	9-8372	P4580-02	Intact
3	MYE5L5	1.9	9-8373	P4580-03	Intact
4	MYE5L6	1.9	9-8374	P4580-04	Intact
5	MYE5L7	1.9	9-8375	P4580-05	Intact
6	MYE5L8	1.9	9-8376	P4580-06	Intact
7	MYE5L9	1.9	9-8377	P4580-07	Intact
8	MYE5M0	1.9	9-8378	P4580-08	Intact
9	MYE5M1	1.9	9-8379	P4580-09	Intact
10	MYE5M2	1.9	9-8380	P4580-10	Intact
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	10/28/24	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**Alliance Technical Group, LLC**		
LAB CODE	**ACE**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**51817**	SDG NO.	**MYE5L3**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	2	✓	
3 . Sample Log-In Sheet (DC-1)	3	3	✓	
4 . CSF Inventory Sheet (DC-2)	4	6	✓	
5 . SDG Narrative	7	9	✓	
6 . Communication Logs	NA	NA	✓	
7 . Percent Solids Log	NA	NA	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	10	19	✓	
18 . Instrument raw data by instrument in analysis order	20	1378	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	1379	1510	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1511	1512	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1513	1530	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	1531	1531	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1532	1532	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1533	1533	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)		Nimisha Pandya, Document Control Officer	
	(Signature)	(Print Name & Title)	(Date)
Audited by: (EPA)			
	(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MYE5L3
CASE # 51817
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4580

A. Number of Samples and Date of Receipt

10 Water samples were delivered to the laboratory intact on 10/26/2024

B. Parameters

Test requested for Metals CLP MS = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle**:** Presence**/Absence**

Cooler: 16.1^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution : To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for ICP-MS Water Sample:

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Concentration or Result (µg/L) = $C \times \frac{Vf}{Vi} \times DF$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Sample MYE5L3 For Zinc:

If C = 2.84 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

Concentration or Result (µg/L) = $2.84 \times \frac{50}{50} \times 1$

= 2.84 µg/L

= 2.8 µg/L (Reported Result with Signification)

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li

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Cadmium	159Tb
Calcium	45Sc
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Iron	45Sc
Lead	209Bi
Magnesium	45Sc
Manganese	45Sc
Nickel	45Sc
Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

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. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer