

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
 Lab Code: ACE Case No.: 51979 MA No.: \_\_\_\_\_ SDG No.: MBHHA8  
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
<u>MBHHA8</u>	<u>Q1315-01</u>	<u>X</u>	_____	_____	_____
<u>MBHHA8D</u>	<u>Q1315-02</u>	<u>X</u>	_____	_____	_____
<u>MBHHA8S</u>	<u>Q1315-03</u>	<u>X</u>	_____	_____	_____

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: \_\_\_\_\_

**USEPA CLP COC (LAB COPY)**

**CHAIN OF CUSTODY RECORD**

**No: 3-020525-095551-0005**

Date Shipped: 2/5/2025

Case #: 51979

Lab: Alliance Technical Group LLC

Carrier Name: FedEx

Cooler #: 2

Lab Contact: Mohammad Ahmed  
Lab Phone: 908-789-8900

Airbill No: 771891586681

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
SO-WC-05-20250204	MBHHA3	Soil/ Jon King	Composite	ICP-AES(14)	1073 (None), 1074 (None) (2)	EMZ5	02/04/2025 10:00	
SO-WC-08-20250204	MBHHA4	Soil/ Jon King	Composite	ICP-AES(14)	1081 (None), 1082 (None) (2)	EMZ8	02/04/2025 10:20	
SO-WC-09-20250204	MBHHA5	Soil/ Jon King	Composite	ICP-AES(14)	1089 (None), 1090 (None) (2)	EMZ9	02/04/2025 10:40	
SO-WC-10-20250204	MBHHA6	Soil/ Jon King	Composite	ICP-AES(14)	1097 (None), 1098 (None) (2)	EMZ10	02/04/2025 11:00	
SO-WC-11-20250204	MBHHA7	Soil/ Jon King	Composite	ICP-AES(14)	1105 (None), 1106 (None) (2)	EMZ11	02/04/2025 11:20	
AQ-WC-01F-20250204	MBHHA8	Water/ Jon King	Grab	ICP-AES(14)	1072 (HNO3 pH<2) (1)	Frac Tank	02/04/2025 11:45	15
AQ-WC-01-20250204	MBHHA9	Water/ Jon King	Grab	ICP-AES(14)	1062 (HNO3 pH<2) (1)	Frac Tank	02/04/2025 11:45	

Special Instructions: Sample AQ-WC-01F-20250204 is field filtered.

Analysis Key: ICP-AES=CLP ICP-AES 11+ Metals

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>[Signature]</i> (Sawyer)	2/5/25 1200	<i>[Signature]</i>	2-6-25 9:30	IR. G. #1 2.6
					Custody Seal Intact
					Cap Bk Intact

FORM DC-1  
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>1</u>
Received By (Print Name) <u>Casanova Peria</u>		Log-in Date <b>2/6/2025</b>
Received By (Signature)		
Case Number <b>51979</b>	SDG No. <b>MBHHA8</b>	MA No. <b>N/A</b>

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>771891586681</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.6</u> 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	<u>02/06/2025</u>
12. Time Received	<u>09:30</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MBHHA8	1.3	1072	Q1315-01	Intact
2	MBHHA8D	1.3	1072	Q1315-02	Intact
3	MBHHA8S	1.3	1072	Q1315-03	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
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. <b>N/A</b>
Date <u>2/6/25</u>	Logbook Page No. <b>N/A</b>

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

LAB NAME	<b>Alliance Technical Group, LLC</b>		
LAB CODE	<b>ACE</b>		
CONTRACT NO.	<b>68HERH20D0011</b>		
CASE NO.	<b>51979</b>	SDG NO.	<b>MBHHA8</b>
MA NO.		SOW NO.	<b>SFAM01.1</b>

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

	<u>PAGE NOS:</u>		<u>CHECK</u>	
	<u>FROM</u>	<u>TO</u>	<u>LAB</u>	<u>REGION</u>
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	10	11	✓	
7. Percent Solids Log	NA	NA	✓	
<b>Analysis Forms and Data (ICP-AES)</b>				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	12	12	✓	
9. Instrument raw data by instrument in analysis order	13	109	✓	
<b>Other Data</b>				
10. Standard and Reagent Preparation Logs	110	255	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	256	257	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	258	259	✓	
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	✓	
<b>Analysis Forms and Data (ICP-MS)</b>				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
18. Instrument raw data by instrument in analysis order	NA	NA	✓	
<b>Other Data</b>				
19. Standard and Reagent Preparation Logs	NA	NA	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs:		CHECK	
	FROM	TO	LAB	REGION
23 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
24 . Raw GPC Data	NA	NA	✓	
25 . Raw Florisil Data	NA	NA	✓	
<b>Analysis Forms and Data (Mercury)</b>				
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	✓	
<b>Other Data</b>				
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	✓	
<b>Analysis Forms and Data (Cyanide)</b>				
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	✓	
<b>Other Data</b>				
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:		CHECK	
FROM	TO	LAB	REGION

**Additional**

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments   1  )

Sample Tags

Sample Log-In Sheet (Lab)

260	260	✓	
NA	NA	✓	
261	261	✓	

45. Misc. Shipping/Receiving Records (list all individual records)

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NA	NA	✓	

46. Internal Lab Sample Transfer Records and Tracking Sheets  
 (describe or list)

\_\_\_\_\_

262	262	✓	

47. Other Records and related Communication Logs  
 (describe or list)

\_\_\_\_\_

NA	NA	✓	

48. Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Completed by:  
 (CLP Lab)

\_\_\_\_\_  
 (Signature)

Nimisha Pandya, Document Control Officer

\_\_\_\_\_  
 (Print Name & Title)

\_\_\_\_\_  
 (Date)

Audited by:  
 (EPA)

\_\_\_\_\_  
 (Signature)

\_\_\_\_\_  
 (Print Name & Title)

\_\_\_\_\_  
 (Date)



**284 Sheffield Street  
Mountainside, NJ 07092**

## **SDG NARRATIVE**

**USEPA  
SDG # MBHHA8  
CASE # 51979  
CONTRACT # 68HERH20D0011  
SOW# SFAM01.1  
LAB NAME: Alliance Technical Group, LLC  
LAB CODE: ACE  
LAB ORDER ID # Q1315**

### **A. Number of Samples and Date of Receipt**

01 Water samples was delivered to the laboratory intact on 02/06/2025.

### **B. Parameters**

Test requested for Metals CLP FULL = 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: 2.6°C

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

Issue 1 : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: Laboratory QC is scheduled for soil and water ICP-AES Metals analysis, but no samples were Designated for QC. The laboratory would like to use samples MBHHA7, MBHHA8, and MBHHA9 for laboratory QC. The laboratory confirms that these samples are not blanks, rinsates, or PT samples.

### **E. Corrective Action taken for above:**

Resolution 1 : 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.

Resolution 2: Per SOW SFAM01.1 Exhibit A, Section 5.5.4.1., please note the issue in the SDG Narrative And proceed with the analysis of the samples using the selected samples for QC.



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**F. Analytical Techniques:**

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

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

**G. Calculation:**

**Calculation for ICP-AES Water Sample:**

$$\text{Concentration or Result } (\mu\text{g/L}) = C \times \frac{V_f}{V_i} \times \text{DF} \times 1000$$

Where,

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

**Example Calculation For Sample MBHHA8 For Aluminum:**

- If C = 0.0273325 ppm
- Vf = 50 ml
- Vi = 50 ml
- DF = 1

$$\begin{aligned} \text{Concentration or Result } (\mu\text{g/L}) &= 0.0273325 \times \frac{50}{50} \times 1 \times 1000 \\ &= 27.3325 \mu\text{g/L} \\ &= 27 \mu\text{g/L (Reported Result with Signification)} \end{aligned}$$

**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. Spike sample did meet requirements except for Silver. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

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



**284 Sheffield Street  
Mountainside, NJ 07092**

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

---

**From:** DeBerry, Eric <Eric.Deberry@gdit.com>  
**Sent:** Thursday, February 06, 2025 11:02 AM  
**To:** Deepak Parmar; Sohil Jodhani; Mohammad Ahmed  
**Cc:** Bauer, Heather E; Johnson, Matthew; Burman, Jarmael; Roberson, Sharon; 'Moody, Brett'; Gambrah, Derrick; Patel, Bhavita; Vargas.Magda@epa.gov; Britz, Helen  
**Subject:** Region 03 | Case 51979 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL  
**Attachments:** SKM\_95825020609500.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Good morning Deepak,

Issue: Laboratory QC is scheduled for soil and water ICP-AES Metals analysis, but no samples were designated for QC. The laboratory would like to use samples MBHHA7, MBHHA8, and MBHHA9 for laboratory QC. The laboratory confirms that these samples are not blanks, rinsates, or PT samples.

Resolution: Per SOW SFAM01.1 Exhibit A, Section 5.5.4.1., please note the issue in the SDG Narrative and proceed with the analysis of the samples using the selected samples for QC.

Please note that the laboratory may contact the appropriate CLP PM should any defects need to be waived for this issue.

Thanks,

Eric DeBerry

Associate Environmental Analyst  
CLP QSS Coordinator – EPA Regions 1 & 3

*Under contract to the EPA*

T: (571) 833-5166  
[Eric.DeBerry@GDIT.com](mailto:Eric.DeBerry@GDIT.com)  
15036 Conference Center Drive  
Chantilly, VA 20151  
[www.gdit.com](http://www.gdit.com)

**GENERAL DYNAMICS**  
Information Technology

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**From:** Deepak Parmar <[Deepak.Parmar@alliancetg.com](mailto:Deepak.Parmar@alliancetg.com)>  
**Sent:** Thursday, February 6, 2025 10:14 AM  
**To:** DeBerry, Eric <[Eric.Deberry@gdit.com](mailto:Eric.Deberry@gdit.com)>

Cc: Sohil Jodhani <[Sohil.Jodhani@AllianceTG.com](mailto:Sohil.Jodhani@AllianceTG.com)>

Subject: Region 3 | Case 51979 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC/QC

**This Message Is From an External Sender**

Please use caution with links, attachments, and any requests for credentials.

Good morning,

Issue 1: QC Scheduled for soil and water for ICP-AES METALS analysis However, a sample was not designated for Laboratory QC. Lab like to use sample MBHHA7,MBHHA8 and MBHHA9 for Lab QC. these samples is not blanks, rinsates or PT.

Please see attachment for your reference.

**Thanks & Regards,**



**Deepak Parmar**  
QA/QC  
An Alliance Technical Group Company  
Main: 908-789-8900  
Direct: 908-728-3154  
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)      