SDG COVER PAGE

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

Lab Code: ACE Case No.: 51979 MA No.: SDG No.: MBHHA3

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHHA3	Q1314-01	X			
MBHHA4	Q1314-02	X			
MBHHA5	Q1314-03	X			
MBHHA6	Q1314-04	X			
MBHHA7	Q1314-05	X			
MBHHA7D	Q1314-06	X			
MBHHA7S	Q1314-07	X			
MBHHA9	Q1314-08	X			
MBHHA9D	Q1314-09	X			
MBHHA9S	Q1314-10	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:

68HERH20D0011 SDG # MBHHA3

USEPA CLP COC (LAB COPY)
DateShipped: 2/5/2025
CarrierName: FedEx
AirbillNo: 771891586681

CHAIN OF CUSTODY RECORD

Case #: 51979
Cooler #: 2

No: 3-020525-095551-0005
Lab: Alliance Techincal Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

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	FF
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.

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

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	(Sovereign)	2/5/25 1200		9:30 2-6-25	IR Gun #1 2.6
					Custody Seal Intact
					Trip Blk present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Cassandra Reno		Log-in Date **2/6/2025**
Received By (Signature)		
Case Number 51979	SDG No. MBHHA3	MA No. N/A

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

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHHA3	N/A	1073,74	Q1314-01	Intact
2	MBHHA4	N/A	1081,82	Q1314-02	Intact
3	MBHHA5	N/A	1089,90	Q1314-03	Intact
4	MBHHA6	N/A	1097,98	Q1314-04	Intact
5	MBHHA7	N/A	1105,06	Q1314-05	Intact
6	MBHHA7D	N/A	1105,06	Q1314-06	Intact
7	MBHHA7S	N/A	1105,06	Q1314-07	Intact
8	MBHHA9	1.3	1062	Q1314-08	Intact
9	MBHHA9D	1.3	1062	Q1314-09	Intact
10	MBHHA9S	1.3	1062	Q1314-10	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	2/6/25	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.	**51979**	SDG NO.	**MBHHA3**
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	10	11	✓	
7. Percent Solids Log	12	13	✓	
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	14	19	✓	
9. Instrument raw data by instrument in analysis order	20	207	✓	
Other Data				
10. Standard and Reagent Preparation Logs	208	368	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	369	372	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	373	376	✓	
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	NA	NA	✓	
18. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
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: 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)	377	377	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	378	378	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	379	380	✓	
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 # MBHHA3
CASE # 51979
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1314

A. Number of Samples and Date of Receipt

05 Soil & 01 Water samples were 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^{o}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.

284 Sheffield Street
Mountainside, NJ 07092

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.

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 Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MBHHA3 For Antimony:

If C = 0.0271316 ppm
Vf = 100 ml
W = 1.13g
S = 0.983 (98.3/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0271316 \times \frac{100}{1.13 \times 0.983} \times 1$$

$$= 2.44254 \text{ mg/kg}$$

$$= 2.4 \text{ mg/kg (Reported Result with Signification)}$$

284 Sheffield Street
Mountainside, NJ 07092

Calculation for ICP-AES Water Sample:

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

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 MBHHA9 For Antimony:

If C = 0.0518795 ppm
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result } (\mu g/L) = 0.0518795 \times \frac{50}{50} \times 1 \times 1000$$

$$= 51.8795\ \mu g/L$$

$$= 52\ \mu g/L \text{ (Reported Result with Signification)}$$

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. 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 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

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
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

GENERAL DYNAMICS
information technology

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

Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 3 | Case 51979 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC/QC

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

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/7/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 13:40
In Date: 02/06/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 02/07/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134601

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1314-01	MBHHA3	1	1.15	8.66	9.81	9.66	98.3	
Q1314-02	MBHHA4	2	1.15	8.58	9.73	8.83	89.5	
Q1314-03	MBHHA5	3	1.15	8.73	9.88	8.96	89.5	
Q1314-04	MBHHA6	4	1.19	8.72	9.91	9.32	93.2	
Q1314-05	MBHHA7	5	1.12	8.70	9.82	8.72	87.4	
Q1314-06	MBHHA7D	6	1.12	8.70	9.82	8.72	87.4	
Q1314-07	MBHHA7S	7	1.12	8.70	9.82	8.72	87.4	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WB134601

WorkList Name : %1-q1314 **WorkList ID :** 187532 **Department :** Wet-Chemistry **Date :** 02-06-2025 12:28:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1314-01	MBHHA3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	02/04/2025	Chemtech -SO
Q1314-02	MBHHA4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	02/04/2025	Chemtech -SO
Q1314-03	MBHHA5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	02/04/2025	Chemtech -SO
Q1314-04	MBHHA6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	02/04/2025	Chemtech -SO
Q1314-05	MBHHA7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	02/04/2025	Chemtech -SO
Q1314-06	MBHHA7D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	02/04/2025	Chemtech -SO
Q1314-07	MBHHA7S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	02/04/2025	Chemtech -SO

Date/Time 02/06/25 12:35
Raw Sample Received by: [signature]
Raw Sample Relinquished by: CP SM

Date/Time 02/06/25 13:50
Raw Sample Received by: CP SM
Raw Sample Relinquished by: [signature]