

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51879 MA No.: _____ SDG No.: MBHHG2
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
MBHHG2	P4913-01	X			
MBHHG3	P4913-02	X			
MBHHG4	P4913-03	X			
MBHHG5	P4913-04	X			
MBHHG6	P4913-05	X			
MBHHG7	P4913-06	X			
MBHHG8	P4913-07	X			
MBHHG9	P4913-08	X			
MBHHH0	P4913-09	X			
MBHHH1	P4913-10	X			
MBHHH2	P4913-11	X			
MBHHH3	P4913-12	X			
MBHHH4	P4913-13	X			
MBHHH5	P4913-14	X			
MBHHH6	P4913-15	X			
MBHHH6D	P4913-16	X			
MBHHH6S	P4913-17	X			
MBHHH7	P4913-18	X			
MBHHH8	P4913-19	X			
MBHHH9	P4913-20	X			
MBHHJ0	P4913-21	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: _____

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

Date Shipped: 11/18/2024

No: 2-11824-131353-0006

Carrier Name: FedEx

Case #: 51879

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed

Airbill No: 7700 4046 1870

Cooler #: 2

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
P107-SB-13-Z00-02	MBHHG2	Soil/		ICP-AES(35)	1091 (Wet ice < 6 C) (1)	P107-SB-13	11/15/2024 11:45	
P107-SB-13-Z02-06	MBHHG3	Soil/		ICP-AES(35)	1092 (Wet ice < 6 C) (1)	P107-SB-13	11/15/2024 11:45	
P107-SB-13-Z06-12	MBHHG4	Soil/		ICP-AES(35)	1093 (Wet ice < 6 C) (1)	P107-SB-13	11/15/2024 11:45	
P107-SB-13-Z12-18	MBHHG5	Soil/		ICP-AES(35)	1094 (Wet ice < 6 C) (1)	P107-SB-13	11/15/2024 11:45	
P107-SB-13-Z18-24	MBHHG6	Soil/		ICP-AES(35)	1095 (Wet ice < 6 C) (1)	P107-SB-13	11/15/2024 11:45	
P107-SB-13-Z24-30	MBHHG7	Soil/		ICP-AES(35)	1096 (Wet ice < 6 C) (1)	P107-SB-13	11/15/2024 11:45	
P107-SB-13-Z30-36	MBHHG8	Soil/		ICP-AES(35)	1097 (Wet ice < 6 C) (1)	P107-SB-13	11/15/2024 11:45	
P121-SB-13-Z00-02	MBHHG9	Soil/		ICP-AES(35)	1224 (Wet ice < 6 C) (1)	P121-SB-13	11/15/2024 14:15	
P121-SB-13-Z02-06	MBHHH0	Soil/		ICP-AES(35)	1225 (Wet ice < 6 C) (1)	P121-SB-13	11/15/2024 14:15	
P121-SB-13-Z06-12	MBHHH1	Soil/		ICP-AES(35)	1226 (Wet ice < 6 C) (1)	P121-SB-13	11/15/2024 14:15	

Special Instructions: Additional sample volume provided for MBHHH6 is for MS/MSD.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP Routine - SFAM01, 1/LSASD SOP C-109 Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	 TUSI	11/18/24 14:35		11-19-24 0957	1.9°C SEALED #1
					Cooler seals intact Temp DV - present

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-111824-131353-0006

Date Shipped: 11/18/2024

Lab: Alliance Technical Group LLC

Carrier Name: FedEx

Case #: 51879

Lab Contact: Mohammad Ahmed

Airbill No: 7700 4046 1870

Cooler #: 2

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
P121-SB-13-Z12-18	MBHHH2	Soil		ICP-AES(35)	1227 (Wet ice < 6 C) (1)	P121-SB-13	11/15/2024 14:15	.
P121-SB-13-Z18-24	MBHHH3	Soil		ICP-AES(35)	1228 (Wet ice < 6 C) (1)	P121-SB-13	11/15/2024 14:15	.
P121-SB-13-Z24-30	MBHHH4	Soil		ICP-AES(35)	1229 (Wet ice < 6 C) (1)	P121-SB-13	11/15/2024 14:15	.
P121-SB-13-Z30-36	MBHHH5	Soil		ICP-AES(35)	1230 (Wet ice < 6 C) (1)	P121-SB-13	11/15/2024 14:15	.
P121-SB-14-Z00-02	MBHHH6	Soil		ICP-AES(35)	1231 (Wet ice < 6 C) (2)	P121-SB-14	11/15/2024 14:50	.
P121-SB-14-Z02-06	MBHHH7	Soil		ICP-AES(35)	1232 (Wet ice < 6 C) (1)	P121-SB-14	11/15/2024 14:50	.
P121-SB-14-Z06-12	MBHHH8	Soil		ICP-AES(35)	1233 (Wet ice < 6 C) (1)	P121-SB-14	11/15/2024 14:50	.
P121-SB-14-Z12-18	MBHHH9	Soil		ICP-AES(35)	1234 (Wet ice < 6 C) (1)	P121-SB-14	11/15/2024 14:50	.
P121-SB-14-Z18-24	MBHH10	Soil		ICP-AES(35)	1235 (Wet ice < 6 C) (1)	P121-SB-14	11/15/2024 14:50	.

Sample(s) to be used for Lab QC: P121-SB-14-Z00-02 Tag 1231 - Special Instructions: Additional sample volume provided for MBHHH6 is for MS/MSD.

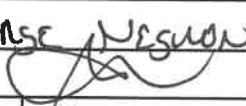
Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	 WSP	11/18/24 14:35	 WSP	11-19-24 0957	1.9°C Custody seals intact Temp BIK-passed 11/15/24

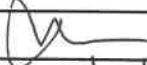
FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>1</u>
Received By (Print Name) <u>Gorse Nelson</u>		Log-in Date 11/19/2024
Received By (Signature) 		
Case Number 51879	SDG No. MBHHG2	MA No. N/A

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>770040461870</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>1.9</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>11/19/2024</u>
12. Time Received	<u>09:57</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MBHHG2	N/A	1091	P4913-01	Intact
2	MBHHG3	N/A	1092	P4913-02	Intact
3	MBHHG4	N/A	1093	P4913-03	Intact
4	MBHHG5	N/A	1094	P4913-04	Intact
5	MBHHG6	N/A	1095	P4913-05	Intact
6	MBHHG7	N/A	1096	P4913-06	Intact
7	MBHHG8	N/A	1097	P4913-07	Intact
8	MBHHG9	N/A	1224	P4913-08	Intact
9	MBHHH0	N/A	1225	P4913-09	Intact
10	MBHHH1	N/A	1226	P4913-10	Intact
11	MBHHH2	N/A	1227	P4913-11	Intact
12	MBHHH3	N/A	1228	P4913-12	Intact
13	MBHHH4	N/A	1229	P4913-13	Intact
14	MBHHH5	N/A	1230	P4913-14	Intact
15	MBHHH6	N/A	1231	P4913-15	Intact
16	MBHHH6D	N/A	1231	P4913-16	Intact
17	MBHHH6S	N/A	1231	P4913-17	Intact
18	MBHHH7	N/A	1232	P4913-18	Intact
19	MBHHH8	N/A	1233	P4913-19	Intact
20	MBHHH9	N/A	1234	P4913-20	Intact
21	MBHHJ0	N/A	1235	P4913-21	Intact
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 <u>11/19/24</u>	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.	51879	SDG NO.	MBHHG2
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:		CHECK	
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	4	✓	
4. CSF Inventory Sheet (DC-2)	5	7	✓	
5. SDG Narrative	8	9	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	10	11	✓	
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	12	30	✓	
9. Instrument raw data by instrument in analysis order	31	313	✓	
Other Data				
10. Standard and Reagent Preparation Logs	314	463	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	464	465	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	466	472	✓	
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	✓	

	<u>PAGE NOS:</u>		<u>CHECK</u>	
	<u>FROM</u>	<u>TO</u>	<u>LAB</u>	<u>REGION</u>
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	✓	

Additional

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 1)

Sample Tags

Sample Log-In Sheet (Lab)

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

46. Internal Lab Sample Transfer Records and Tracking Sheets
(describe or list)47. Other Records and related Communication Logs
(describe or list)

48. Comments:

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



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MBHHG2

CASE # 51879

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # P4913

A. Number of Samples and Date of Receipt

19 Soil samples were delivered to the laboratory intact on 11/19/2024.

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: 1.9°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.

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



**284 Sheffield Street
Mountainside, NJ 07092**

G. Calculation:

Calculation for ICP-AES Soil Sample:

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

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

Where,

C = Instrument value in ppm (The average of all replicate exposures)

V_f = 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 MBHHG2 For Antimony:

If C = 0.0091395 ppm

V_f = 100 ml

W = 1.26 g

S = 0.689(68.9/100)

DF = 1

$$\text{Concentration (mg/kg)} = 0.0091395 \times \frac{100}{1.26 \times 0.689} \times 1$$

$$= 1.052767 \text{ mg/kg}$$

$$= 1.1 \text{ mg/kg (Reported Result with Signification)}$$

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 Antimony, Selenium, 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



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/20/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:50
In Date: 11/19/2024
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: 11/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133511

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
P4913-01	MBHHG2	1	1.15	8.68	9.83	7.13	68.9	
P4913-02	MBHHG3	2	1.15	8.81	9.96	8.39	82.2	
P4913-03	MBHHG4	3	1.11	8.76	9.87	8.48	84.1	
P4913-04	MBHHG5	4	1.19	8.58	9.77	8.59	86.2	
P4913-05	MBHHG6	5	1.19	8.52	9.71	8.39	84.5	
P4913-06	MBHHG7	6	1.16	8.51	9.67	8.54	86.7	
P4913-07	MBHHG8	7	1.16	8.77	9.93	8.99	89.3	
P4913-08	MBHHG9	8	1.15	8.81	9.96	7.44	71.4	
P4913-09	MBHHH0	9	1.17	8.55	9.72	7.7	76.4	
P4913-10	MBHHH1	10	1.19	8.63	9.82	8.43	83.9	
P4913-11	MBHHH2	11	1.16	8.48	9.64	8.28	84.0	
P4913-12	MBHHH3	12	1.17	8.54	9.71	8.36	84.2	
P4913-13	MBHHH4	13	1.16	8.81	9.97	8.98	88.8	
P4913-14	MBHHH5	14	1.15	8.72	9.87	8.78	87.5	
P4913-15	MBHHH6	15	1.16	8.80	9.96	8.05	78.3	
P4913-16	MBHHH6D	16	1.16	8.80	9.96	8.05	78.3	
P4913-17	MBHHH6S	17	1.16	8.80	9.96	8.05	78.3	
P4913-18	MBHHH7	18	1.13	8.68	9.81	8.82	88.6	
P4913-19	MBHHH8	19	1.15	8.50	9.65	8.94	91.6	
P4913-20	MBHHH9	20	1.15	8.83	9.98	9.08	89.8	
P4913-21	MBHHJ0	21	1.17	8.58	9.75	8.76	88.5	

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

WORKLIST(Hardcopy Internal Chain)

133511

WorkList Name : %1-p4913

WorkList ID : 185580

Department : Wet-Chemistry

Date : 11-19-2024 12:42:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4913-01	MBHHG2	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-02	MBHHG3	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-03	MBHHG4	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-04	MBHHG5	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-05	MBHHG6	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-06	MBHHG7	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-07	MBHHG8	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-08	MBHHG9	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-09	MBHHH0	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-10	MBHHH1	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-11	MBHHH2	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-12	MBHHH3	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-13	MBHHH4	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-14	MBHHH5	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-15	MBHHH6	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-16	MBHHH6D	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-17	MBHHH6S	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-18	MBHHH7	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-19	MBHHH8	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-20	MBHHH9	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO
P4913-21	MBHHJ0	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/15/2024	Chemtech -SO

Date/Time 11-19-24 13:20

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11-19-24

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]