SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHM90

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHM90	P5125-01	X			
MBHM91	P5125-02	X			
MBHM92	P5125-03	X			
MBHM93	P5125-04	X			
MBHM94	P5125-05	X			
MBHM94D	P5125-06	X			
MBHM94S	P5125-07	X			
MBHM95	P5125-08	X			
MBHM96	P5125-09	X			
MBHM97	P5125-10	X			
MBHMB2	P5125-11	X			
MBHMB3	P5125-12	X			
MBHMB4	P5125-13	X			
MBHMB5	P5125-14	X			
MBHMB6	P5125-15	X			
MBHMB7	P5125-16	X			
MBHMB8	P5125-17	X			
MBHMD5	P5125-18	X			
MBHMD6	P5125-19	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 # MBHM90

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-120424-102328-0047

DateShipped: 12/4/2024

CarrierName: FedEx

AirbillNo: 7704 9476 3037

Case #: 51879

Cooler #: 2

Lab: Alliance Technical 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
P133-SB-02-Z30-36	MBHM90	Soil/		ICP-AES(35)	1928 (Wet ice < 6 C) (1)	P133-SB-02	11/26/2024 10:29	
P133-SB-09-Z00-02	MBHM91	Soil/		ICP-AES(35)	1881 (Wet ice < 6 C) (1)	P133-SB-09	11/26/2024 12:05	
P133-SB-09-Z02-06	MBHM92	Soil/		ICP-AES(35)	1882 (Wet ice < 6 C) (1)	P133-SB-09	11/26/2024 12:05	
P133-SB-09-Z06-12	MBHM93	Soil/		ICP-AES(35)	1883 (Wet ice < 6 C) (1)	P133-SB-09	11/26/2024 12:05	
P133-SB-09-Z12-18	MBHM94	Soil/		ICP-AES(35)	1884 (Wet ice < 6 C) (1)	P133-SB-09	11/26/2024 12:05	a
P133-SB-09-Z18-24	MBHM95	Soil/		ICP-AES(35)	1885 (Wet ice < 6 C) (1)	P133-SB-09	11/26/2024 12:05	
P133-SB-09-Z24-30	MBHM96	Soil/		ICP-AES(35)	1886 (Wet ice < 6 C) (1)	P133-SB-09	11/26/2024 12:05	
P133-SB-09-Z30-36	MBHM97	Soil/		ICP-AES(35)	1887 (Wet ice < 6 C) (1)	P133-SB-09	11/26/2024 12:05	
P133-SB-03-Z00-02	MBHMB2	Soil/		ICP-AES(35)	1929 (Wet ice < 6 C) (1)	P133-SB-03	11/26/2024 11:30	
P133-SB-03-Z02-06	MBHMB3	Soil/		ICP-AES(35)	1860 (Wet ice < 6 C) (1)	P133-SB-03	11/26/2024 11:30	

Special Instructions: Samples MBHM88 and MBHM94 are MS/MSDs.

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	12/04/24 16:00		1010 12-5-24	TR-Cont #1 2-4°
					Custody Seal Intact
		N/A	12/04/24		Trip Blk present

68HERH20D0011

SDG # MBHM90

USEPA CLP COC (LAB COPY)

DateShipped: 12/4/2024

CarrierName: FedEx

AirbillNo: 7704 9476 3037

CHAIN OF CUSTODY RECORD

Case #: 51879

Cooler #: 2

No: 2-120424-102328-0047

Lab: Alliance Technical 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
P133-SB-03-Z06-12	MBHMB4	Soil/		ICP-AES(35)	1861 (Wet ice < 6 C) (1)	P133-SB-03	11/26/2024 11:30	
P133-SB-03-Z12-18	MBHMB5	Soil/		ICP-AES(35)	1862 (Wet ice < 6 C) (1)	P133-SB-03	11/26/2024 11:30	
P133-SB-03-Z18-24	MBHMB6	Soil/		ICP-AES(35)	1863 (Wet ice < 6 C) (1)	P133-SB-03	11/26/2024 11:30	
P133-SB-03-Z24-30	MBHMB7	Soil/		ICP-AES(35)	1864 (Wet ice < 6 C) (1)	P133-SB-03	11/26/2024 11:30	
P133-SB-03-Z30-36	MBHMB8	Soil/		ICP-AES(35)	1865 (Wet ice < 6 C) (1)	P133-SB-03	11/26/2024 11:30	
P133-SB-06-Z06-12-FD	MBHMD5	Soil/		ICP-AES(35)	5549 (Wet ice < 6 C) (1)	P133-SB-06	11/26/2024 11:45	
P133-SB-03-Z00-02-FD	MBHMD6	Soil/		ICP-AES(35)	5550 (Wet ice < 6 C) (1)	P133-SB-03	11/26/2024 11:30	
				N/A	12/04/24			

Special Instructions: Samples MBHM88 and MBHM94 are MS/MSDs.

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	12/04/24 16:00		1010 12-5-24	TR Cont #1 24-5
					Custody Seal Intact
	N/A		12/04/24		Temp Blank present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Cassandra Reiss		Log-in Date **12/5/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHM90	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.	770494763037 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 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	12/05/2024
12.Time Received	10:10

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHM90	N/A	1928	P5125-01	Intact
2	MBHM91	N/A	1881	P5125-02	Intact
3	MBHM92	N/A	1882	P5125-03	Intact
4	MBHM93	N/A	1883	P5125-04	Intact
5	MBHM94	N/A	1884	P5125-05	Intact
6	MBHM94D	N/A	1884	P5125-06	Intact
7	MBHM94S	N/A	1884	P5125-07	Intact
8	MBHM95	N/A	1885	P5125-08	Intact
9	MBHM96	N/A	1886	P5125-09	Intact
10	MBHM97	N/A	1887	P5125-10	Intact
11	MBHMB2	N/A	1929	P5125-11	Intact
12	MBHMB3	N/A	1860	P5125-12	Intact
13	MBHMB4	N/A	1861	P5125-13	Intact
14	MBHMB5	N/A	1862	P5125-14	Intact
15	MBHMB6	N/A	1863	P5125-15	Intact
16	MBHMB7	N/A	1864	P5125-16	Intact
17	MBHMB8	N/A	1865	P5125-17	Intact
18	MBHMD5	N/A	5549	P5125-18	Intact
19	MBHMD6	N/A	5550	P5125-19	Intact
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	12/5/24	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.	**51879**	SDG NO.	**MBHM90**
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	3	✓	
3 . Sample Log-In Sheet (DC-1)	4	4	✓	
4 . CSF Inventory Sheet (DC-2)	5	7	✓	
5 . SDG Narrative	8	10	✓	
6 . Communication Logs	NA	NA	✓	
7 . Percent Solids Log	11	12	✓	
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	13	29	✓	
9 . Instrument raw data by instrument in analysis order	30	893	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	894	1032	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1033	1034	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1035	1067	✓	
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)	1068	1068	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1069	1070	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1071	1071	✓	
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 # MBHM90
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5125

A. Number of Samples and Date of Receipt

17 Soil sample were delivered to the laboratory intact on 12/05/2024.

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: 2.1^{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.

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):

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

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 MBHM90 For Antimony:

If C = 0.1306262 ppm
Vf = 100 ml
W = 1.24 g
S = 0.762(76.2/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.1306262 \times \frac{100}{1.24 \times 0.762} \times 1$$

$$= 13.824633 \text{ mg/kg}$$

= 14 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 Copper, Selenium, Silver, Thallium, Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Aluminum, Calcium, Chromium, Iron, Magnesium, Manganese, Zinc.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.

284 Sheffield Street
Mountainside, NJ 07092

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: 12/9/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:45
In Date: 12/06/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 12/07/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133792

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
P5125-01	MBHM90	1	1.16	8.37	9.53	7.54	76.2	
P5125-02	MBHM91	2	1.16	8.37	9.53	7.25	72.8	
P5125-03	MBHM92	3	1.16	8.37	9.53	7.14	71.4	
P5125-04	MBHM93	4	1.16	8.44	9.6	7.09	70.3	
P5125-05	MBHM94	5	1.16	8.80	9.96	8.00	77.7	
P5125-06	MBHM94D	6	1.16	8.80	9.96	8.00	77.7	
P5125-07	MBHM94S	7	1.18	8.78	9.96	8.00	77.7	
P5125-08	MBHM95	8	1.16	8.60	9.76	7.35	72.0	
P5125-09	MBHM96	9	1.17	8.57	9.74	7.31	71.6	
P5125-10	MBHM97	10	1.17	8.77	9.94	7.9	76.7	
P5125-11	MBHMB2	11	1.17	8.81	9.98	7.75	74.7	
P5125-12	MBHMB3	12	1.15	8.39	9.54	7.73	78.4	
P5125-13	MBHMB4	13	1.16	8.74	9.9	7.88	76.9	
P5125-14	MBHMB5	14	1.16	8.44	9.6	8.37	85.4	
P5125-15	MBHMB6	15	1.16	8.61	9.77	8.61	86.5	
P5125-16	MBHMB7	16	1.17	8.81	9.98	9.1	90.0	
P5125-17	MBHMB8	17	1.16	8.64	9.8	8.64	86.6	
P5125-18	MBHMD5	18	1.18	8.72	9.9	7.87	76.7	
P5125-19	MBHMD6	19	1.16	8.64	9.8	7.48	73.1	

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

WORKLIST(Hardcopy Internal Chain)

VB 133792

WorkList Name : %1-P5125 **WorkList ID :** 186075 **Department :** Wet-Chemistry **Date :** 12-06-2024 14:42:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5125-01	MBHM90	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-02	MBHM91	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-03	MBHM92	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-04	MBHM93	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-05	MBHM94	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-06	MBHM94D	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-07	MBHM94S	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-08	MBHM95	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-09	MBHM96	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-10	MBHM97	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-11	MBHMB2	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-12	MBHMB3	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-13	MBHMB4	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-14	MBHMB5	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-15	MBHMB6	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-16	MBHMB7	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-17	MBHMB8	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-18	MBHMD5	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO
P5125-19	MBHMD6	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/26/2024	Chemtech -SO

Date/Time 210624 15:20

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 12/06/24 15:50

Raw Sample Received by:

Raw Sample Relinquished by: