SDG COVER PAGE

Lab Name: Allian	nce Technical Group, LLC	Contract	: 68HERH20DC	011	
Lab Code: ACE	Case No.: 51879	MA No.:			SDG No.: MBHMT4
SOW No.: SFAMO	1.1				
EPA Sample No.	Lab Sample Id	ICP-AES	Analysis I	Method Mercury	Cyanide
MBHMT4	P5200-01	X			
МВНМТ5	P5200-02	X			
МВНМТ6	P5200-03	X			<u> </u>
МВНМТ7	P5200-04	X			
мвнмх0	P5200-05	X			
MBHMX1	P5200-06	X			<u> </u>
мвнмх2	P5200-07	X			
мвнмх3	P5200-08	X			
MBHMX3D	P5200-09	X			<u></u>
MBHMX3S	P5200-10	X			
МВНМХ4	P5200-11	X			
МВНМХ5	P5200-12	X			
МВНМХ6	P5200-13	X			
МВНМХ7	P5200-14	X			
MBHNJ3	P5200-15	X			
I certify that the contract, both tends to the SDG Narrat of the data contacts but the submitted has been	is data package is in comchnically and for complet ive. All edits and manual ined in this hardcopy Comn authorized by the Labor	mpliance with teness, for ot integrations mplete SDG Fil	her than the have been pe e and in the	conditior eer-review electroni	ns detailed wed. Release .c data
of the data conta submitted has bee: verified by the f	ined in this hardcopy Com	mplete SDG Fil ratory Manager	e and in the or the Manag	electroni	c data
Signature:		Name			
)ate:		Titl	.e:		

USEPA CLP COC (LAB COPY)

AirbillNo: 7705 5865 8740 CarrierName: FedEx DateShipped: 12/5/2024

CHAIN OF CUSTODY RECORD

SDG # MBHMT4

68HERH20D0011

Case #: 51879 Cooler #: 2

No: 2-120524-112527-0053

Lab: Alliance Technical Group LLC

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

Sample Identifier	Sample No.	Matrix/Sampler	Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection	For Lab Use
P179-SB-04-Z12- 18	MBHMT4	Soil/		ICP-AES(35)	5107 (Wet ice < 6 C) (1)	P179-SB-04	11/22/2024 09:50	Only
P179-SB-04-Z18- 24	MBHMT5	Soil/		ICP-AES(35)	5108 (Wet ice < 6 C) (1)	P179-SB-04	11/22/2024 09:50	
P179-SB-04-Z24- 30	мвните	Soil/		ICP-AES(35)	5109 (Wet ice < 6 C) (1)	P179-SB-04	11/22/2024 09:50	
P179-SB-04-Z30- 36	MBHMT7	Soil/		ICP-AES(35)	5170 (Wet ice < 6 C) (1)	P179-SB-04	11/22/2024 09:50	
P179-SB-04-Z12- 18-FD	мвнихо	Soil/		ICP-AES(35)	5568 (Wet ice < 6 C) (1)	P179-SB-04	11/22/2024 09:50	
P169-SB-06-Z00- 02	MBHMX1	Soil/		ICP-AES(35)	4072 (Wet ice < 6 C) (1)	P169-SB-06	11/19/2024 14:40	
P169-SB-06-Z02- 06	MBHMX2	Soil/		ICP-AES(35)	4073 (Wet ice < 6 C) (1)	P169-SB-06	11/19/2024 14:40	
P169-SB-06-Z06- 12	мвнихз	Soll/		ICP-AES(35)	4074 (Wet ice < 6 C) (1)	P169-SB-06	11/19/2024 14:40	•
P169-SB-06-Z12- 18	MBHMX4	Soil/		ICP-AES(35)	4075 (Wet ice < 6 C) (1)	P169-SB-06	11/19/2024 14:40	
P169-SB-10-Z00- 02	MBHMX5	Soil/		ICP-AES(35)	4030 (Wet ice < 6 C) (1)	P169-SB-10	11/20/2024 14:35	

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals Sample(s) to be used for Lab QC: P169-SB-06-Z06-12 Tag 4074 - Special Instructions: Samples MBHMQ3 and MBHMX3 are MS/MSDs. Sample MBHMT2 had limited sample mass.

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

	1 Cooler	Rems/Keason
	State wsp	Rems/Reason Relinquished by (Signature and Organization)
KJ/A		Date/Time
106/24	(Signature and Organization)	December / Cination and Committee
1	12/7/24	
cop him	12/7/24 De. 2.5 Thum	

USEPA CLP COC (LAB COPY)

CarrierName: FedEx DateShipped: 12/5/2024

68HERH20D0011 CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 2

SDG # MBHMT4

No: 2-120524-112527-0053

Lab: Alliance Technical Group LLC

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

P169-SB-10-Z02-Sample Identifier P169-SB-10-Z02-06 RB15-12062024 CLP Sample No. MBHNJ3 **MBHMX6** MBHMX7 Matrix/Sampler Water/ Soil/ Soil Coll. Method Analysis/Turnaround (Days) ICP-AES(35) ICP-AES(35) ICP-AES(35) Tag/Preservative/Bottles 5582 (HNO3 pH < 2) (1) 5569 (Wet ice < 6 C) (1) 4031 (Wet ice < 6 C) (1) RB15-12062024 | 12/06/2024 10:00 | PH 1.0 P169-SB-10 P169-SB-10 Location 11/20/2024 14:35 11/20/2024 14:35 Collection Date/Time For Lab Use

Special Instructions: Samples MBHMQ3 and MBHMX3 are MS/MSDs. Sample MBHMT2 had limited sample mass

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

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

			1 Cooler	items/Reason
			Sate wish	Relinquished by (Signature and Organization)
			16:40	Date/Time
12/06/21	UIA Starth		Per	Received by (Signature and Organization)
		4:17	12/7/2	Date/Time
	Why Ben My	Lesp blend brams	12/7/Ly 2.5° IROM #	Date/Time Sample Condition Upon Receipt

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC	Page_1_of_\
Received By (Print Name)	Log-in Date 12/7/2024
Received By (Signature)	
Case Number 51879 SDG No. MBHMT4	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.	770558658740 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.5 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	12/07/2024
12.Time Received	09:55

			Correspondi	ng	Remarks:
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned Lab #	Condition of Sample
1	мвнмт4	N/A	5107	P5200-01	Intact
2	мвнмт5	N/A	5108	P5200-02	Intact
3	мвнмт6	N/A	5109	P5200-03	Intact
4	мвнмт7	N/A	5170	P5200-04	Intact
5	мвнмх0	N/A	5568	P5200-05	Intact
6	мвнмх1	N/A	4072	P5200-06	Intact
7	мвнмх2	N/A	4073	P5200-07	Intact
8	мвнмхз	N/A	4074	P5200-08	Intact
9	мвнмхзр	N/A	4074	P5200-09	Intact
10	мвнмхзѕ	N/A	4074	P5200-10	Intact
11	мвнмх4	N/A	4075	P5200-11	Intact
12	мвнмх5	N/A	4030	P5200-12	Intact
13	мвнмх6	N/A	4031	P5200-13	Intact
14	мвнмх7	N/A	5569	P5200-14	Intact
15	мвнизз	1.0	5582	P5200-15	Intact
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	X	Logbook No.	N/A
Date	12/8/24	Logbook Page No.	N/A

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

LAB NAME	Alliance Tech	nical Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51879	SDG NO.	мвнмт4	
MA NO.		SOW NO.	SFAM01.1	
	-			<u> </u>

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

	PAGE :	NOs:	СН	ECK
	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	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	13	25	✓	
or sample analysis, laboratory QC as applicable Instrument raw data by instrument in analysis order	26	741		
Other Data				
10 . Standard and Reagent Preparation Logs	742	880	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and	881	884	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or	885	908	✓	
Instrument Logbooks 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	NA	NA	✓	
or sample analysis, laboratory QC as applicable 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	NA	NA	✓	
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
<pre>Instrument Logbooks 22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions</pre>	NA	NA	✓	

	PAGE 1	NOs:	СН	ECK
	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		
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA		
or sample analysis, laboratory QC as applicable 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	NA	NA		
Instrument Logbooks 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
Instructions 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	NA	NA	✓	
or sample analysis, laboratory QC as applicable 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	NA	NA	✓	
Cleanup Logbooks 39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
Instrument Logbooks 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA_	NA	✓	
Instructions 41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42 . Raw GPC Data	NA	NA	✓	·
43 . Raw Florisil Data	NA	NA	✓	

			PAGE	NOs:	CH	HECK
			FROM	TO	LAB	REGION
Additional						
44. EPA Shippi	ng/Receiving Documents					
Airbill (N	o. of Shipments)		909	909	✓	
Sample Tag	rs		NA	NA	✓	
Sample Log	r-In Sheet (Lab)		910	911	✓	
45. Misc. Ship	pping/Receiving Records(list all indivi	dual records)				
			NA	NA		
	ab Sample Transfer Records and Trackin	g Sheets				
(describe	or list)		912	913		
-					√	-
45 011 5						-
4/. Other Reco	ords and related Communication Logs or list)					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			NA	NA	✓	
_						
10 0						
48. Comments:						
-						
Completed by:						
(CLP Lab)		Nimisha Pandya, Docume	ent Control	. Officer	<u> </u>	
Audited by:	(Signature)	(Print Name & Title)			(Da	te)
(EPA)	(Signature)	(Print Name & Title)			(Da	te)
	(0191140410)	(IIIII Wame a IICIE)			(Δα	,



SDG NARRATIVE

USEPA
SDG # MBHMT4
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5200

A. Number of Samples and Date of Receipt

12 Soil & 01 Water sample were delivered to the laboratory intact on 12/07/2024.

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: 2.5°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):

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 MBHMT4 For Antimony:

If
$$C = 0.0223164 \text{ ppm}$$

$$Vf = 100 \text{ ml}$$

$$W = 1.43 g$$

$$S = 0.791(79.1/100)$$

$$DF = 1$$

Concentration (mg/kg) =
$$0.0223164 \text{ x} \frac{100}{1.43 \text{ x } 0.791} \text{ x } 1$$

$$= 1.972929 \text{ mg/kg}$$

= 2.0 mg/kg (Reported Result with Signification

Calculation for ICP-AES Water Sample:

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 MBHNJ3 For Aluminum:

If C = 0.0273913 ppm Vf = 50 ml Vi = 50 ml DF = 1 $Concentration or Result (µg/L) = 0.0273913 \times \frac{50}{50} \times 1 \times 1000$ = 27.3913 µg/L = 27 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. Spike sample did meet requirements except for Arsenic, Silver, Thallium. Duplicate sample did meet. 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: 12/12/2024

OVENTEMP IN Celsius(°C): 107

Time IN: 17:00

In Date: 12/11/2024

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: 12/12/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

BalanceID: M SC-4

Thermometer ID: % SOLID- OVEN

Qc:LB133889

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
P5200-01	MBHMT4	1	1.15	8.70	9.85	8.03	79.1	
P5200-02	МВНМТ5	2	1.18	8.45	9.63	8.43	85.8	
P5200-03	МВНМТ6	3	1.13	8.74	9.87	8.76	87.3	
P5200-04	МВНМТ7	4	1.16	8.61	9.77	8.7	87.6	
P5200-05	мвнмх0	5	1.15	8.40	9.55	7.75	78.6	
P5200-06	мвнмх1	6	1.12	8.86	9.98	8.3	81.0	
P5200-07	мвнмх2	7	1.16	8.47	9.63	8.47	86.3	
P5200-08	мвнмх3	8	1.19	8.72	9.91	8.72	86.4	
P5200-09	MBHMX3D	9	1.19	8.72	9.91	8.72	86.4	
P5200-10	MBHMX3S	10	1.19	8.72	9.91	8.72	86.4	
P5200-11	мвнмх4	11	1.13	8.77	9.9	8.93	88.9	
P5200-12	мвнмх5	12	1.17	8.40	9.57	7.91	80.2	
P5200-13	мвнмх6	13	1.17	8.50	9.67	8.4	85.1	
P5200-14	мвнмх7	14	1.12	8.67	9.79	8.47	84.8	

WORKLIST(Hardcopy Internal Chain)

Department: Wet-Chemistry WorkList ID: 186230 WorkList Name: %1-p5200

193889 an

					wer-cnemistry	Date:		12-11-2024 12:15:25
Sample	Customer Sample	Matrix	Test	Preservative	R. Customer St	Raw Sample		54 19:19:29
							Collect Date Method	Method
P5200-01	MRHMTA					Callon		2 2 2
		Solid	Percent Solids	Cool 4 dea C				
P5200-02	MBHMT5	Solid	Percent Colido		USEP01 C13		11/22/2024	Chemtech -SO
P5200-03	MBHMT6	-	Spilos income	Cool 4 deg C	USEP01 C13		11/22/2024	
P5200-04		pilos	Percent Solids	Cool 4 deg C	LISEDO1		112212024	Chemtech -SO
	MBHM17	Solid	Percent Solids	0 200 1 1000	COELOI		11/22/2024	Chemtech -SO
P5200-05	MBHMX0	Solid	Percent Colida	Coor 4 deg C	USEP01 C13		11/22/2024	Chemtech -SO
P5200-06	MBHMX1	Silon	Spilos incom.	Cool 4 deg C	USEP01 C13		10	Chompton
P5200-07	MBHMX2	Dillos	Percent Solids	Cool 4 deg C	USEP01 C13		- 1	Orellinech - 50
		Solid	Percent Solids	Cool 4 dea C				Chemtech -SO
P5200-08	MBHMX3	Solid	Doront O-till	O Ran t Room	USEP01 C13		11/19/2024	Chemtech -S.O.
P5200-09	MBHMX3D		Solids I solids	Cool 4 deg C	USEP01 C13		1	
		Solid	Percent Solids	Cool 4 den C			- 1	Chemtech -SO
P5200-10	MBHMX3S	Solid	Percent Solide	O BOD I	USEP01 C13		11/19/2024	Chemtech -SO
P5200-11	MBHMX4			Cool 4 deg C	USEP01 C13		11/19/2024	1
P5200-12	TOWN TOWN	Diloc	Percent Solids	Cool 4 deg C	USFP04		- 1	Os- usalliació
71.0015	MISHIMXS	Solid	Percent Solids				11/19/2024	Chemtech -So
P5200-13	MBHMX6	Solid		C001 4 deg C	USEP01 C13		11/20/2024	Chemtech - co
P5200-14	MBHMX7		reicent solids	Cool 4 deg C	USEP01 C13		- 10	
		Solid	Percent Solids	Cool 4 deg C	USEP04		- 1	Chemtech -SO
					510		11/20/2024	Chemtech -SO

DatesTime 12-11-24 14 140

Raw Sample Received by: (1) (1)

Raw Sample Relinquished by:

Page 1 of 1

Date/Time ハートトリートアント Raw Sample Received by:

15/10