### SDG COVER PAGE

No.: 51879 MA N  Imple Id ICP-AES  X  X  X  X  X  X  X	Analysis Meth	SDG No.: MBHLQ3
X       12       X       13       X       14       X       15       X		
X       12       X       13       X       14       X       15       X		
22 X 23 X 24 X 25 X		
23 X 24 X 25 X		
)4 X )5 X		
)5 X		
	<u> </u>	
)6 X		
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)	9 X 0 X 1 X 2 X 3 X 4 X 5 X 6 X 7 X 8 X 9 X 4 Ax 6 Ax 7 Ax 8 Ax 9 Ax 6 Ax 9 Ax 6 Ax 7 Ax 8 Ax 9 Ax 6 Ax 7 Ax 8 Ax 9 Ax 9 Ax 6 Ax 7 Ax 8 Ax 9	9 X

### 68HERH20D0011

### SDG # MBHLQ3

### USEPA CLP COC (LAB COPY)

AirbilNo: 7704 5937 9423 CarrierName: FedEx DateShipped: 12/3/2024

### CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 4

No: 2-120324-110212-0043

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
P178-SB-07-Z30- 36	MBHLQ3	Soil/		ICP-AES(35)	5085 (Wet ice < 6 C) (1)	P178-SB-07	11/21/2024 13:50	
P171-SB-01-Z00- 02	MBHLYO	Soil/		ICP-AES(35)	4237 (Wet ice < 6 C) (1)	P171-SB-01	11/20/2024 11:30	
P171-SB-01-Z02- 06	MBHLY1	Soil/		ICP-AES(35)	4238 (Wet ice < 6 C) (1)	P171-SB-01	11/20/2024 11:30	
P171-SB-01-Z06- 12	MBHLY2	Soil/		ICP-AES(35)	4239 (Wet ice < 6 C) (1)	P171-SB-01	11/20/2024 11:30	
P171-SB-01-Z12- 18	MBHLY3	Soil/		ICP-AES(35)	4190 (Wet ice < 6 C) (1)	P171-SB-01	11/20/2024 11:30	
P171-SB-01-Z18- 24	MBHLY4	Soil/		ICP-AES(35)	4191 (Wet ice < 6 C) (1)	P171-SB-01	11/20/2024 11:30	8
P171-SB-01-Z24- 30	MBHLY5	Soil/		ICP-AES(35)	4192 (Wet ice < 6 C) (1)	P171-SB-01	11/20/2024 11:30	,
P171-SB-01-Z30- 36	MBHLY6	Soil/		ICP-AES(35)	4193 (Wet ice < 6 C) (1)	P171-SB-01	11/20/2024 11:30	

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals Sample(s) to be used for Lab QC: P171-SB-01-Z18-24 Tag 4191 - Special Instructions: Samples MBHLN2 and MBHLY4 are MS/MSDs. Sample MBHLN4 has limited sample mass. Samples Transferred From Chain of Custody # Shipment for Case Complete? N

P171-SB-02-Z02-06

**MBHLY8** 

Soil/

ICP-AES(35)

4195 (Wet ice < 6 C) (1)

P171-SB-02

11/20/2024 11:40

4194 (Wet ice < 6 C) (1)

P171-SB-02

11/20/2024 11:40

ICP-AES(35)

P171-SB-02-Z00-02

MBHLY7

Soil/

		1 cooler	items/Keason
		White	Relinquished by (Signature and Organization)
10/		WSP	and Organization)
***		12/03/24	Date/Time
	The state of the s	Q	Received by (S
h8/80/21	ī		Received by (Signature and Organization)
24	,	12-4-24	Date/Time
Top Dut pres t	Custody Sul That	F.C. # 1 2-1.	Sample Condition Upon Receipt

68HERH20D0011

# USEPA CLP COC (LAB COPY)

AirbillNo: 7704 5937 9423 CarrierName: FedEx DateShipped: 12/3/2024

## CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 4

SDG # MBHLQ3

No: 2-120324-110212-0043

Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed Lab Phone: 908-789-8900

A
5534 (Wet ice < 6 C) (1) P171-SB-02
< 6 C) (1)
4240 (Wet ice < 6 C) (1) P171-SB-02
4199 (Wet ice < 6 C) (1) P171-SB-02
4198 (Wet ice < 6 C) (1) P171-\$B-02
4197 (Wet ice < 6 C) (1) P171-SB-02
4196 (Wet ice < 6 C) (1) P171-SB-02
Tag/Preservative/Bottles Location

	Shipment for Case Complete? N
Special Instructions: Samples MBHLN2 and MBHLY4 are MS/MSDs. Sample MBHLN4 has limited sample mass.	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals	

Items/Reason Relinquist	cooler Ch		
Items/Reason Relinquished by (Signature and Organization)	ASW MSP		N
n) Date/Time	12/03/24	10	4
Received by (Signature and Organization)		NA AM	12/0
Date/Time	12.4.29		12/03/24
Sample Condition Upon Receipt	74 Con#1	Cestely Sud	2000
Upon Re	2.1	Cal Last	~ m3

### FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name: Alliance Technical Group,		Page 1 of t
Received By (Print Name)	avan Keri	Log-in Date 12/4/2024
Received By (Signature)		
Case Number 51879	SDG No. MBHLQ3	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.	770459379423 1
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	12/04/2024
12.Time Received	10:20

			Correspond	ing	Domestic
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned	Remarks: Condition of Sample Shipment, etc.
1	MBHLQ3	N/A	5085	P5087-01	Intact
2	MBHLY0	N/A	4237	P5087-02	Intact
3	MBHLY1	N/A	4238	P5087-03	Intact
4	MBHLY2	N/A	4239	P5087-04	Intact
5	MBHLY3	N/A	4190	P5087-05	Intact
6	MBHLY4	N/A	4191	P5087-06	Intact
7	MBHLY4D	N/A	4191	P5087-07	Intact
8	MBHLY4S	N/A	4191	P5087-08	Intact
9	MBHLY5	N/A	4192	P5087-09	Intact
10	MBHLY6	N/A	4193	P5087-10	Intact
11	MBHLY7	N/A	4194	P5087-11	Intact
12	MBHLY8	N/A	4195	P5087-12	Intact
13	MBHLY9	N/A	4196	P5087-13	Intact
14	MBHLZ0	N/A	4197	P5087-14	Intact
15	MBHLZ1	N/A	4198	P5087-15	Intact
16	MBHLZ2	N/A	4199	P5087-16	Intact
17	MBHLZ3	N/A	4240	P5087-17	Intact
18	МВНМ34	N/A	5533	P5087-18	Intact
19	мвнм35	N/A	5534	P5087-19	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	<u> </u>	Logbook No.	N/A	
Date	12424	Logbook Page No.	N/A	

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

LAB NAME	Alliance Tech	nnical Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51879	SDG NO.	MBHLQ3	
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:	СН	ECK
FROM	TO	LAB	REGION
1. SDG Cover Page	1	✓	
2. Traffic Report/Chain of Custody Record(s) 2	3	<b>√</b>	
3. Sample Log-In Sheet (DC-1) 4	4	<b>✓</b>	
4. CSF Inventory Sheet (DC-2) 5	7	<b>✓</b>	
5. SDG Narrative 8	10	✓	
6. Communication Logs	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 sample13	29	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order  30	1043	✓	
Other Data			
10 . Standard and Reagent Preparation Logs 1044	1182	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1184	<b>√</b>	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks  1185	1213	<b>✓</b>	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample  Instructions	NA_	<b>✓</b>	
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_	_	
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	<b>✓</b>	
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	<b>✓</b>	

	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 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	NA	NA		
Instrument Logbooks 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
Instructions 32. Extraction Logs for TCLP and SPLP	NA	NA	<b>✓</b>	
33 . Raw GPC Data	NA	NA	<b>√</b>	
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	<b>✓</b>	
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	<b>√</b>	
43 . Raw Florisil Data	NA	NA	<b>✓</b>	

	PAGE	NOs:	CI	HECK
	FROM	TO	LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments1)	1214	1214	✓	
Sample Tags	NA	NA	<b>✓</b>	
Sample Log-In Sheet (Lab)	1215	1216	<b>√</b>	
45. Misc. Shipping/Receiving Records(list all individual records)				
	NA	NA_		
46. Internal Lab Sample Transfer Records and Tracking Sheets				
(describe or list)	1217	1217	,	
			<u> </u>	-
			-	
47. Other Records and related Communication Logs (describe or list)				
(40001120 01 1100)	NA	NA	✓	
			-	
48. Comments:				
-				
Completed by:				
(CLP Lab) Nimisha Pandya, Do		l Officer		
(Signature) (Print Name & Tit Audited by:	tle)		(Da	te)
(EPA)				
(Signature) (Print Name & Tit	tle)		(Da	te)



### **SDG NARRATIVE**

USEPA
SDG # MBHLQ3
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5087

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

17 Soil sample were delivered to the laboratory intact on 12/04/2024.

### **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°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) = 
$$C \times Vf \times VF$$
  
W x S

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 MBHLQ3 For Arsenic:**

If C = 0.0938583 ppm

Vf = 100 ml

W = 1.48 g

S = 0.881(88.1/100)

DF = 1

Concentration (mg/kg) =  $0.0938583 \text{ x} \frac{100}{1.48 \text{ x } 0.881} \text{ x } 1$ 

= 7.198384 mg/kg

= 7.2 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, Barium, Beryllium, Copper, Selenium, Silver, Thallium, Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Aluminum, Barium, Calcium, Chromium, Cobalt, Copper, 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:** 12/6/2024

OVENTEMP IN Celsius(°C): 107

Time IN: 16:15

**In Date:** 12/05/2024

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

OvenID: M OVEN#1

OVENTEMP OUT Celsius (°C): 103

Time OUT: 08:27

Out Date: 12/06/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4

Thermometer ID: % SOLID- OVEN

**QC:**LB133765

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
P5087-01	MBHLQ3	1	1.16	8.63	9.79	8.76	88.1	
P5087-02	MBHLY0	2	1.16	8.62	9.78	7.87	77.8	
P5087-03	MBHLY1	3	1.16	8.67	9.83	8.45	84.1	
P5087-04	MBHLY2	4	1.17	8.64	9.81	8.28	82.3	
P5087-05	MBHLY3	5	1.16	8.61	9.77	7.69	75.8	
P5087-06	MBHLY4	6	1.16	8.54	9.7	7.75	77.2	
P5087-07	MBHLY4D	7	1.16	8.54	9.7	7.75	77.2	
P5087-08	MBHLY4S	8	1.16	8.54	9.7	7.75	77.2	
P5087-09	MBHLY5	9	1.16	8.45	9.61	8.00	80.9	
P5087-10	MBHLY6	10	1.17	8.64	9.81	8.75	87.7	
P5087-11	MBHLY7	11	1.16	8.69	9.85	7.55	73.5	
P5087-12	MBHLY8	12	1.17	8.64	9.81	7.97	78.7	
P5087-13	MBHLY9	13	1.17	8.77	9.94	8.52	83.8	
P5087-14	MBHLZ0	14	1.17	8.41	9.58	7.93	80.4	
P5087-15	MBHLZ1	15	1.16	8.45	9.61	8.15	82.7	
P5087-16	MBHLZ2	16	1.18	8.68	9.86	8.14	80.2	
P5087-17	MBHLZ3	17	1.14	8.49	9.63	8.65	88.5	
P5087-18	мвнм34	18	1.16	8.64	9.8	8.5	85.0	
P5087-19	МВНМ35	19	1.18	8.72	9.9	8.24	81.0	

# WORKLIST(Hardcopy Internal Chain)

WorkList ID: 186022

WorkList Name: %1-P5087

Department: Wet-Chemistry

JO 13765

		WORKLIST ID :	ID: 186022	Department :	Wet-Chemistry		Date: 12-05-20	12-05-2024 15-02-41
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage	Colle	Method
P5087-01	MBHI O3	-						
DE007.00	257	Solid	Percent Solids	Cool 4 deg C	USEP01	C64	14/24/2024	
1908/-02	MBHLY0	Solid	Percent Solids	Cool 4 deg C	LISEP04	5	11/2/1/2024	Chemtech -SO
P5087-03	MBHLY1	Solid	Percent Solids	Cool A dear		3	11/20/2024	Chemtech -SO
P5087-04	MBHLY2	Solid	Percent Colida	O Report	USEP01	C61	11/20/2024	Chemtech -SO
P5087-05	MBHLY3	ilo	Spilos Hoose	Cool 4 deg C	USEP01	C61	11/20/2024	Chemtech -SO
P5087-06	MBHLY4		Spilos Juana	Cool 4 deg C	USEP01	C61	11/20/2024	Chemtech -SO
P5087-07	MBHIVAD	pilos	Percent Solids	Cool 4 deg C	USEP01	C61	11/20/2024	Chemtech -SO
P5087-08	WBHI VAS	Solid	Percent Solids	Cool 4 deg C	USEP01	C61	11/20/2024	Chemtech - CO
DE087 00	WDI LT 43	Solid	Percent Solids	Cool 4 deg C	USEP01	) 26.	11/20/2024	
F3067-09	MBHLY5	Solid	Percent Solids	Cool 4 dea C			11/20/2024	Chemtech -SO
P5087-10	MBHLY6	Solid	Percent Colide		USEP01	C61	11/20/2024	Chemtech -SO
P5087-11	MBHLY7	1 1 0	Spillo illocation	Cool 4 deg C	USEP01	C61	11/20/2024	Chemtech -SO
P5087-12	0 2 1 0 2	Diloc	Percent Solids	Cool 4 deg C	USEP01	C61	11/20/2024	Chemtech
DE007 40	METETO	Solid	Percent Solids	Cool 4 deg C	USEP01	C61	44/20/2024	
1300/-13	MBHLY9	Solid	Percent Solids	Cool 4 den C	2001011		4707070	Chemiech -SO
P5087-14	MBHLZ0	Solid	Percent Solids	0 808 1 1000	COEPUI	[Sel	11/20/2024	Chemtech -SO
P5087-15	MBHLZ1	Solid	Percent Solids	Cool 4 deg C	USEP01	C61	11/20/2024	Chemtech -SO
P5087-16	MBHLZ2	rijou		Cool 4 deg C	USEP01	C61	11/20/2024	Chemtech -SO
P5087-17	MBHI 23		rercent Solids	Cool 4 deg C	USEP01	C61	11/20/2024	Chemtech -SO
P5087-18	MDUMOA	pilos	Percent Solids	Cool 4 deg C	USEP01	C61	11/20/2024	Chemtech - 0.0
DE087 40	450 INC	Solid	Percent Solids	Cool 4 deg C	USEP01	C61	1	
61-1000	MBHM35	Solid	Percent Solids	Cool 4 deg C	USEP01	C61	- 1	Onemiech -SO
							- 1	Chemtech -SO

Page 1 of 1

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 12105124 1530

Date/Time 121 US UM

Raw Sample Received by:

Raw Sample Relinquished by: