### SDG COVER PAGE

_ab Code: A	TTTAITCC	Technical Grou	p, LLC	Contract	: 68HERH20	D0011	
ab code.	CE	Case No.: 5	1879	MA No.:			SDG No.: MBHKJ1
SOW No. : SI	FAM01.1						
EDA Cample M		Ish Cample To	J	TOD AEC	Analysis		Cuanida
EPA Sample N	0.	Lab Sample Id	1	ICP-AES	ICP-MS	Mercury	Cyanide
МВНКЈ1		P5039-01		X			
MBHKJ2		P5039-02		X			
МВНКЈЗ		P5039-03		X			
MBHKJ4		P5039-04		X			
МВНКЈ5		P5039-05		X			
МВНКЈ6		P5039-06		X			
МВНКЈ7		P5039-07		X			
MBHKJ7D		P5039-08		X	_		
МВНКЈ7Ѕ		P5039-09		X			
МВНКК5		P5039-10		Х			
мвнкк6		P5039-11		X			
МВНКК7		P5039-12		X			
MBHKL5		P5039-13		X			
MBHKL6		P5039-14	<u> </u>	X			
MBHKL7		P5039-15		X			
MBHKL8		P5039-16		X			
MBHKL9		P5039-17		X			
мвнкм0		P5039-18		Х	_		
MBHKM1		P5039-19		Х			
мвнкм3		P5039-20		X			
MBHKM4		P5039-21		X			

**USEPA CLP COC (LAB COPY)** 

CarrierName: FedEx DateShipped: 11/26/2024

**CHAIN OF CUSTODY RECORD** 

68HERH20D0011

SDG # MBHKJ1

No: 2-112624-152828-0032

Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

Case #: 51879 Cooler #: 7

Sample(s) to be used for Lab QC: P174-SB-08-Z30-36 Tag 4646 - Special Instructions: Samples MBHKJ7 and MBHKM9 are MS/MSDs. Samples MBHKN4, MBHKN5, MBHKN6, MBHKN6, MBHKN8, MBHKN8, MBHKN8, MBHKN1 and MBHKN2 have limited sample mass.

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

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

		1 Cooler 8	Items/Reason Reli
		lesse wish	Relinquished by (Signature and Organization) Date/Time
	5	1720/24	Date/Time
11/2/10/1	NA SERVE	Q.	Received by (Signature and Organization)
		11-27-24	Date/Time
tem Black present	Custody Seal Trinct	Thout 3.2.	Date/Time Sample Condition Upon Receipt

68HERH20D0011

# USEPA CLP COC (LAB COPY)

CarrierName: FedEx
AirbillNo: 7702 6139 4612 DateShipped: 11/26/2024

# CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 8

SDG # MBHKJ1

Lab: Alliance Technical Group LLC No: 2-112624-161432-0033

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

٩	11/20/2024 09:55	P174-SB-18	4715 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHKM4	P174-SB-18-Z24- 30
18	11/20/2024 09:55	P174-SB-18	4714 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	мвнкмз	P174-SB-18-Z18- 24
P	11/20/2024 09:55	P174-SB-18	4713 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHKM2	P174-SB-18-Z12- 18
13	11/20/2024 09:55	P174-SB-18	4712 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHKM1	P174-SB-18-Z06- 12
8	11/20/2024 09:55	P174-SB-18	4711 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHKMO	P174-SB-18-Z02- 06
5	11/20/2024 09:55	P174-SB-18	4710 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHKL9	P174-SB-18-Z00- 02
7	11/20/2024 10:30	P174-SB-16	4672 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHKL8	P174-SB-16-Z30- 36
7	11/20/2024 10:30	P174-SB-16	4671 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHKL7	P174-SB-16-Z24- 30
7	11/20/2024 10:30	P174-SB-16	4670 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHKL6	P174-SB-16-Z18-
11	11/20/2024 10:30	P174-SB-16	4709 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHKL5	P174-SB-16-Z12- 18
For Lab Use Only	Collection Date/Time	Location	Tag/Preservative/Bottles	Analysis/Turnaround (Days)	Coll. Method	Matrix/Sampler	CLP Sample No.	Sample Identifier

	Shipment for Case Complete? N
Sample(s) to be used for Lab QC: P174-SB-18-Z12-18 Tag 4713 - Special Instructions: Samples MBHKW2 and MBHKW5 are MS/MSDs.	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals	

Received by (Signature and Organization)  (			1 Cooler State 2058 11/20/24	Items/Reason Relinquished by (Signature and Organization) Date/Time
Date/Time	11/26/24	WH Shilles		Received by (Signature and
		1 June 1 12:2211		Date/Time

# FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group	Page_1_of		
Received By (Print Name)	era fire	Log-in Date 11/27/2024	
Received By (Signature)			
Case Number 51879	SDG No. MBHKJ1	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.	770261394759 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	3.2 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	11/27/2024
12.Time Received	10:05

			Correspon	Remarks:	
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned	Condition of Sample
1	МВНКЈ1	N/A	4640	P5039-01	Intact
2	МВНКЈ2	N/A	4641	P5039-02	Intact
3	мвнк)3	N/A	4642	P5039-03	Intact
4	мвнкј4	N/A	4643	P5039-04	Intact
5	мвнк)5	N/A	4644	P5039-05	Intact
6	мвнкј6	N/A	4645	P5039-06	Intact
7	МВНКЈ7	N/A	4646	P5039-07	Intact
8	мвнкј7р	N/A	4646	P5039-08	Intact
9	мвнкј75	N/A	4646	P5039-09	Intact
10	мвнкк5	N/A	4669	P5039-10	Intact
11	мвнкк6	N/A	4700	P5039-11	Intact
12	мвнкк7	N/A	4701	P5039-12	Intact
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 I	N/A	N/A	N/A

\* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	11/27/27	Logbook Page No.	N/A

# FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Gro	Page_2_of_2	
Received By (Print Name	nava Reie	Log-in Date 11/27/2024
Received By (Signature)		
Case Number 51879	SDG No. MBHKJ1	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.	770261394612 2
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	11/27/2024
12.Time Received	10:05

			Correspo	Bomorko	
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned	Remarks: Condition of Sample Shipment, etc.
1	MBHKL5	N/A	4709	P5039-13	Intact
2	MBHKL6	N/A	4670	P5039-14	Intact
3	MBHKL7	N/A	4671	P5039-15	Intact
4	MBHKL8	N/A	4672	P5039-16	Intact
5	MBHKL9	N/A	4710	P5039-17	Intact
6	мвнкмо	N/A	4711	P5039-18	Intact
7	МВНКМ1	N/A	4712	P5039-19	Intact
8	мвнкмз	N/A	4714	P5039-20	Intact
9	МВНКМ4	N/A	4715	P5039-21	Intact
10	N/A	N/A	N/A	N/A	N/A
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	V	Logbook No.	N/A	
Date	M/22/24	Logbook Page No.	N/A	

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

LAB NAME	Alliance Technical Group, LLC								
LAB CODE	ACE	ACE							
CONTRACT NO.	68HERH20D0011	68HERH20D0011							
CASE NO.	51879	SDG NO.	мвнкј1						
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	<b>✓</b>	
3. Sample Log-In Sheet (DC-1)	4	5	<b>✓</b>	
4. CSF Inventory Sheet (DC-2)	6	8	<b>✓</b>	
5. SDG Narrative	9	11	✓	
6. Communication Logs	NA	NA	✓	
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	14	32	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	33	546	✓	
Other Data				
10. Standard and Reagent Preparation Logs	547	700	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or		702	✓	
		730	✓	
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	PAGE NOs:		CHECK	
	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	✓		
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:		CHECK	
			FROM	TO	LAB	REGION
Additional						
44. EPA Shippin	g/Receiving Documents					
Airbill (No	. of Shipments)		731	732	✓	_
Sample Tags			NA	NA	✓	
Sample Log-	In Sheet (Lab)		733	734	✓	
45. Misc. Shipp	ing/Receiving Records(list all ind	dividual records)				
			NA_	NA_		
						_
46. Internal La	b Sample Transfer Records and Tra	cking Sheets				
(describe o	r list)		735	735	,	
-						-
47. Other Record (describe of	ds and related Communication Logs r list)					
(46561126	,		NA	NA	✓	
						-
						-
48. Comments:						
-						
Completed by:						
(CLP Lab)		Nimisha Pandya, Docu		Officer	- <del>-</del>	
Audited by:	(Signature)	(Print Name & Title	:)		(Da	te)
(EPA)						
_	(Signature)	(Print Name & Title	.)		(Da	te)



### **SDG NARRATIVE**

USEPA
SDG # MBHKJ1
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5039

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

19 Soil samples were delivered to the laboratory intact on 11/27/2024.

### **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) = 
$$C \times Vf \times VF$$
  
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 MBHKJ1 For Antimony:**

If 
$$C = 0.0266958 \text{ ppm}$$
  
 $Vf = 100 \text{ ml}$   
 $W = 1.23 \text{ g}$ 

S = 0.721(72.1/100)

DF = 1

Concentration (mg/kg) = 
$$0.0266958 \text{ x} \frac{100}{1.23 \text{ x } 0.721} \text{ x } 1$$

= 3.0102 mg/kg

= 3.0 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 Selenium, Silver. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Cobalt, Lead.

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: 12/3/2024

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27

Out Date: 12/03/2024

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

BalanceID: M SC-4

Thermometer ID: % SOLID- OVEN

Time IN: 15:30
In Date: 12/02/2024
Weight Check 1.0g: 1.00

OVENTEMP IN Celsius(°C): 107

Weight Check 10g: 10.00 OvenID: M OVEN#1

**QC:**LB133686

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
P5039-01	MBHKJ1	1	1.15	8.82	9.97	7.51	72.1	
P5039-02	мвнкј2	2	1.15	8.40	9.55	7.43	74.8	
P5039-03	мвнкј3	3	1.19	8.52	9.71	8.02	80.2	
P5039-04	МВНКЈ4	4	1.16	8.82	9.98	8.48	83.0	
P5039-05	МВНКЈ5	5	1.19	8.61	9.8	8.43	84.1	
P5039-06	мвнкј6	6	1.16	8.51	9.67	8.52	86.5	
P5039-07	МВНКЈ7	7	1.13	8.60	9.73	9.27	94.7	
P5039-08	МВНКЈ7D	8	1.13	8.60	9.73	9.27	94.7	
P5039-09	мвнкј7ѕ	9	1.13	8.60	9.73	9.27	94.7	
P5039-10	мвнкк5	10	1.13	8.77	9.9	8.16	80.2	
P5039-11	мвнкк6	11	1.15	8.77	9.92	8.66	85.6	
P5039-12	МВНКК7	12	1.17	8.53	9.7	8.84	89.9	
P5039-13	MBHKL5	13	1.18	8.60	9.78	8.31	82.9	
P5039-14	MBHKL6	14	1.16	8.50	9.66	8.38	84.9	
P5039-15	MBHKL7	15	1.15	8.56	9.71	8.52	86.1	
P5039-16	MBHKL8	16	1.17	8.40	9.57	8.98	93.0	
P5039-17	MBHKL9	17	1.12	8.62	9.74	7.23	70.9	
P5039-18	мвнкм0	18	1.15	8.83	9.98	8.36	81.7	
P5039-19	МВНКМ1	19	1.19	8.79	9.98	8.54	83.6	
P5039-20	мвнкм3	20	1.19	8.50	9.69	8.45	85.4	
P5039-21	МВНКМ4	21	1.16	8.60	9.76	8.42	84.4	

# WORKLIST(Hardcopy Internal Chain)

WorkList ID: 185901

%1-p5039-1

WorkList Name:

Department: Wet-Chemistry

789881 W

Chemtech -SO 11/20/2024 Chemtech -SO Chemtech -SO Chemtech -SO 11/20/2024 Chemtech -SO Chemtech -SO Chemtech -SO 11/20/2024 Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO 11/20/2024 Chemtech -SO Chemtech -SO Chemtech -SO 11/20/2024 Chemtech -SO Chemtech -SO Chemtech -SO Date: 12-02-2024 13:05:35 Collect Date Method 11/20/2024 11/20/2024 11/20/2024 11/20/2024 11/20/2024 11/20/2024 11/20/2024 11/20/2024 11/20/2024 11/20/2024 11/20/2024 11/20/2024 11/20/2024 Raw Sample Location Storage C22 Customer USEP01 Cool 4 deg C Preservative Percent Solids **Test** Matrix Solid Customer Sample MBHKJ7D MBHKJ7S **MBHKJ3 MBHKJ2** MBHKJ1 MBHKJ5 MBHKJ7 MBHKK6 MBHKJ4 MBHKJ6 MBHKK5 **MBHKK7** MBHKL9 MBHKL5 **MBHKM0** MBHKL6 MBHKL8 MBHKM1 MBHKL7 P5039-03 P5039-01 P5039-02 P5039-05 P5039-06 P5039-04 P5039-08 P5039-09 P5039-12 P5039-07 P5039-10 P5039-15 Sample P5039-11 P5039-13 P5039-14 P5039-16 P5039-17 P5039-18 P5039-19

Date/Time (2/04/24 14:50

Raw Sample Received by:

Raw Sample Relinquished by:

Raw Sample Relinquished by: 12/02/24 Raw Sample Received by: Date/Time

15135

11/20/2024 Chemtech -SO 11/20/2024 Chemtech -SO

C22

USEP01 USEP01

C22 C22

USEP01

Cool 4 deg C Cool 4 deg C

Percent Solids

Solid Solid

**MBHKM3** MBHKM4

P5039-20 P5039-21

Percent Solids

11/20/2024 Chemtech -SO

Page 1 of 1