		SDG COVER FA	GE		
Lab Name: Allian	ce Technical Group, LLC	Contract	: 68HERH20	D0011	
Lab Code: ACE	Case No.: 51879	MA No.:			SDG No.: MBHN27
SOW No. : SFAM01	.1				
EPA Sample No.	Lab Sample Id	ICP-AES	Analysis ICP-MS	Method Mercury	Cyanide
MBHN27	P5203-01	X			
MBHN28	P5203-02	X			
MBHN29	P5203-03	Х			
MBHN30	P5203-04	X			
MBHN31	P5203-05	X			
MBHN32	P5203-06	X			
MBHN33	P5203-07	X			
MBHN61	P5203-08	X			
MBHN62	P5203-09	X			
MBHN63	P5203-10	X			
MBHN95	P5203-11	X			
MBHNB5	P5203-12	X			
MBHNB6	P5203-13	X			
MBHNB7	P5203-14	X			
MBHNB8	P5203-15	X			
MBHNB9	P5203-16	X			
MBHNC0	P5203-17	X			
MBHNC1	P5203-18	X			
MBHNC1D	P5203-19	Х			
MBHNC1S	P5203-20	Χ			
MBHND0	P5203-21	X			

SDG COVER PAGE

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:	

Page 1 of 4

USEPA CLP COC (LAB COPY)

DateShipped: 12/6/2024 CarrierName: FedEx

68HERH20D0011

CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 2

No: 2-120624-115853-0055

SDG # MBHN27

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
P160-SB-01-Z00- 02	MBHN27	Soil/		. ICP-AES(35)	3281 (Wet ice < 6 C) (1)	P160-SB-01	11/19/2024 08:45	١
P160-SB-01-Z02- 06	MBHN28	Soil/		ICP-AES(35)	3282 (Wet ice < 6 C) (1)	P160-SB-01	11/19/2024 08:45	L
P160-SB-01-Z06- 12	MBHN29	Soil/		ICP-AES(35)	3283 (Wet ice < 6 C) (1)	P160-SB-01	11/19/2024 08:45	(
P160-SB-01-Z12- 18	MBHN30	Soil/		ICP-AES(35)	3284 (Wet ice < 6 C) (1)	P160-SB-01	11/19/2024 08:45	ι
P160-SB-01-Z18- 24	MBHN31	Soil/		ICP-AES(35)	3285 (Wet ice < 6 C) (1)	P160-SB-01	11/19/2024 08:45	١
P160-SB-01-Z24- 30	MBHN32	Soil/		ICP-AES(35)	3286 (Wet ice < 6 C) (1)	P160-SB-01	11/19/2024 08:45	١
P160-SB-01-Z30- 36	MBHN33	Soil/		ICP-AES(35)	3287 (Wet ice < 6 C) (1)	P160-SB-01	11/19/2024 08:45	1
P173-SB-14-Z00- 02	MBHN61	Soil/		ICP-AES(35)	4494 (Wet ice < 6 C) (1)	P173-SB-14	11/26/2024 09:50	Ĩ.
P173-SB-14-Z02- 06	MBHN62	Soil/		ICP-AES(35)	4495 (Wet ice < 6 C) (1)	P173-SB-14	11/26/2024 09:50	(
P173-SB-14-Z06- 12	MBHN63	Soil/		ICP-AES(35)	4496 (Wet ice < 6 C) (1)	P173-SB-14	11/26/2024 09:50	
						Shipment for Case Complete? N	e Complete? N	

1.3 Them H and A Ten blan Ma Sample Condition Upon Receipt 12/12/ 52.6 Date/Time Received by (Signature and Organization) Prouzu 12/00/21 Date/Time 00£1 Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals Relinquished by (Signature and Organization) 1202 Items/Reason 2 Cooler

Samples Transferred From Chain of Custody #

Special Instructions: Samples MBHNC1 and MBHNC9 are MS/MSDs. Sample MBHN90 has limited sample mass.

Page 3 of 4

USEPA CLP COC (LAB COPY)

DateShipped: 12/6/2024 CarrierName: FedEx

68HERH20D0011 CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 2

No: 2-120624-115853-0055 SDG # MBHN27

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

Flerr Sample Condition Upon Receipt 3 They me ~ Cherry 12/11/21 Date/Time 4-17 Received by (Signature and Organization) 24 19010 12100121 Date/Time a021 Items/Reason Relinquished by (Signature and Organization) 4555 2 Cooker

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

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alli	ance Technical Group	o, LLC			Page_1_of)_			
Received By (Pr	int Name	0.10	Rena			Log-in Date	e 12/7/20)24
Received By (Si	gnature)	een a	Parlo					
Case Number	51879	SDG	No. MBHI	N27		MA No. N	/A	
Remarks:						Correspondi	na	
1. Custody Seal (s)	Present, Intact			Aqueous	-	een coponan		Remarks: Condition
2. Custody Seal Nos.	<u>n/a</u>		EPA Sample #	Water Sample pH	Sam Tag		Assigned	of Sample Shipment, etc.
3. Traffic Reports/Chain Of	Present		MBHN27	N/A	3281		P5203-01	Intact
Custody Records		2	MBHN28	N/A	3282		P5203-02	Intact
4 A 1.4.211	_	3	MBHN29	N/A	3283		P5203-03	Intact
4. Airbill	Present	4	MBHN30	N/A	3284		P5203-04	Intact
5. Airbill No. and	770558659816	5	MBHN31	N/A	3285		P5203-05	Intact
Shipping Container ID No.	1	6	MBHN32	N/A	3286		P5203-06	Intact
		7	MBHN33	N/A	3287		P5203-07	Intact
 Shipping Container Temperature 	Present	8	MBHN61	N/A	4494		P5203-08	Intact
Indicator Bottle		9	MBHN62	N/A	4495		P5203-09	Intact
7. Shipping Container	1.3 Degree C	10	MBHN63	N/A	4496		P5203-10	Intact
Temperature	<u>1.5</u> Dogroe	11	MBHN95	N/A	4471		P5203-11	Intact
8. Sample	Intact	12	MBHNB5	N/A	3245		P5203-12	Intact
Condition		13	MBHNB6	N/A	3246		P5203-13	Intact
		14	MBHNB7	N/A	3247		P5203-14	Intact
9. Sample Tags Sample Tag	Absent	15	MBHNB8	N/A	3248		P5203-15	Intact
Numbers	Listed on Traffic	16	МВНИВ9	N/A	3249		P5203-16	Intact
	Report	17	MBHNCO	N/A	3290		P5203-17	Intact
10. Does information on Traffic	Yes	18	MBHNC1	N/A	3291		P5203-18	Intact
Reports/Chain of Custody Records		19	MBHNC1D	N/A	3291		P5203-19	Intact
and Sample Tags		20	MBHNC1S	N/A	3291		P5203-20	Intact
agree ?		21	MBHNDO	N/A	3289		P5203-21	Intact
 Date Received at Lab 	12/07/2024	22	N/A	N/A	N/A		N/A	N/A
		23	N/A	N/A	N/A		N/A	N/A
12.Time Received	09:55							

* Contact SMO and attach record of resolution

Reviewed By	CA.	Logbook No.	N/A
Date	12924	Logbook Page No.	N/A

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

SDG NO.	MBHN27
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 FROM	NOs: TO	<u>CH</u> LAB	<u>ECK</u> REGION
1. SDG Cover Page	1	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	31	_ ✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	32	385	✓	
Other Data				
10. Standard and Reagent Preparation Logs	386	522	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and	523	524	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	525	533	✓	
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	1	
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	✓	
Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

23. Extraction Logs for TCLF and SPLP TO LAB REGION 24. Raw GPC Data NA NA NA NA NA 25. Raw Florisil Data NA NA NA V		PAGE N	10s:	CH	IECK
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or sample analysis, laboratory QC as applicable NA NA NA NA NA V 27. Instrument raw data by instrument in analysis order NA NA NA V 28. Standard and Reagent Preparation Logs NA NA V V 29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks NA NA V 30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks NA NA V 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions NA NA V 32. Extraction Logs for TCLP and SPLP NA NA V NA NA V 33. Raw GPC Data NA NA V NA NA V 34. Raw Florisil Data NA NA V NA NA V 35. Sample Analysis Data Forms (IA-OR, IB-OR, and I-IN) for each sample or sample analysis, laboratory QC as applicable NA NA V 36. Instrument raw data by instrument in analysis order NA NA V NA V 37. Standard and Reagent Preparation Logs NA NA V NA	Analysis Forms and Data (Mercury)				
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40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓ 1. Extraction Logs for TCLP and SPLP NA NA ✓ 42. Raw GPC Data NA NA ✓	39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA		
41. Extraction Logs for TCLP and SPLP NA NA ✓ 42. Raw GPC Data NA NA ✓	40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
		NA	NA		
43. Raw Florisil Data NA NA 🖌	42. Raw GPC Data	NA	NA	✓	
	43. Raw Florisil Data	NA	NA	✓	

			PAGE 1	PAGE NOs:		ECK
			FROM	TO	LAB	REGION
Additional 44. EPA Ship	pping/Receiving Documents					
Airbill	(No. of Shipments)		534	534	✓	
Sample I	"ags		NA	NA	~	
Sample I	Log-In Sheet (Lab)		535	536	√	
45. Misc. Sh	hipping/Receiving Records(list all ind	ividual records)	NA	NA	1	
				NA ✓ 536 ✓		
	Lab Sample Transfer Records and Trac be or list)	king Sheets	537	537	✓	
	ecords and related Communication Logs be or list)					
			NA	NA	√	·
				·		·
48. Comments	S:					
Completed b (CLP Lab)		Nimisha Pandya, Doc		Officer		
Audited by: (EPA)	(Signature)	(Print Name & Titl	e)		(Dat	ce)
	(Signature)	(Print Name & Titl	e)		(Dat	ce)



284 Sheffield Street Mountainside, NJ 07092

SDG NARRATIVE

USEPA SDG # MBHN27 CASE # 51879 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # P5203

A. Number of Samples and Date of Receipt

19 Soil samples 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: 1.3°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.



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 MBHN27 For Arsenic:

If C = 0.1097486 ppm Vf = 100 ml W = 1.28 g S = 0.727(72.7/100) DF = 1 Concentration (mg/kg) = 0.1097486 x $\frac{100}{1.28 \times 0.727}$ x 1 = 11.7938 mg/kg = 12 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 Silver. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Cobalt.

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: 12/13/2024

OVENTEMP IN Celsius(°C): 107 Time IN: 12:35 In Date: 12/12/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1 OVENTEMP OUT Celsius (°C): 103 Time OUT: 07:25 Out Date: 12/13/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 1.00 BalanceID: M SC-4 Thermometer ID: % SOLIDS-OVEN

QC:LB133911

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
P5203-01	MBHN27	1	1.16	8.69	9.85	7.48	72.7	
P5203-02	MBHN28	2	1.15	8.73	9.88	7.73	75.4	
P5203-03	MBHN29	3	1.14	8.83	9.97	8.39	82.1	
P5203-04	MBHN30	4	1.15	8.79	9.94	8.34	81.8	
P5203-05	MBHN31	5	1.15	8.73	9.88	8.58	85.1	
P5203-06	MBHN32	6	1.18	8.57	9.75	8.83	89.3	
P5203-07	MBHN33	7	1.16	8.54	9.7	8.87	90.3	
P5203-08	MBHN61	8	1.14	8.67	9.81	7.42	72.4	
P5203-09	MBHN62	9	1.16	8.77	9.93	7.02	66.8	
P5203-10	MBHN63	10	1.14	8.48	9.62	7.47	74.6	
P5203-11	MBHN95	11	1.14	8.51	9.65	8.82	90.2	
P5203-12	MBHNB5	12	1.17	8.67	9.84	7.08	68.2	
P5203-13	MBHNB6	13	1.15	8.37	9.52	7.56	76.6	
P5203-14	MBHNB7	14	1.16	8.72	9.88	7.75	75.6	
P5203-15	MBHNB8	15	1.16	8.44	9.6	7.42	74.2	
P5203-16	MBHNB9	16	1.17	8.58	9.75	7.27	71.1	
P5203-17	MBHNC0	17	1.18	8.38	9.56	7.5	75.4	
P5203-18	MBHNC1	18	1.17	8.53	9.7	8.65	87.7	
P5203-19	MBHNC1D	19	1.17	8.53	9.7	8.65	87.7	
P5203-20	MBHNC1S	20	1.17	8.53	9.7	8.65	87.7	
P5203-21	MBHND0	21	1.17	8.70	9.87	7.84	76.7	

$\text{Solid} = \frac{(C-A) * 100}{2}$	
(B-A)	

			WORKLIST(Hardo	WORKLIST(Hardcopy Internal Chain)	(L	Inpeer of	111	
WorkList Name :	%1-p5203	WorkList ID :	186275	Department : We	Wet-Chemistry	2		12-12-2024 10:40:15
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Colle	Method
P5203-01	MBHN27	Pilou						
P5203-02	MBHN28		rercent solids	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-03	MBHN29		Percent Solids	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech _SO
P5203-04	MBHN30	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/19/2024	Chemical -50
P5203-05	MBHN34		Percent Solids	Cool 4 deg C	USEP01	C53	11/19/2024	
P5203-06	MBHN32		Percent Solids	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-07	MBHN33		Percent Solids	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-08	MBHN61		Percent Solids	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-09	MBHN62		Percent Solids	Cool 4 deg C	USEP01	C53	11/26/2024	Chemtech -SO
P5203-10	MBHN63			Cool 4 deg C	USEP01	C53	11/26/2024	Chemtech -SO
P5203-11	MBHN95			Cool 4 deg C	USEP01	C53	11/26/2024	Chemtech -SO
P5203-12	MBHNB5		rercent Solids	Cool 4 deg C	USEP01	C53	11/26/2024	Chemtech -SO
P5203-13	MBHNB6		Percent Solids	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-14	MBHNB7		Percent Solids	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-15	MBHNB8		Percent Colido	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-16	MBHNB9			Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-17	MBHNC0		Percent Solids	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-18	MBHNC1		Percent Collas	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-19	MBHNC1D			Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-20			Percent Solids	Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
P5203-21	MBHND0			Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
Date/Time	(JUJICI ACTEC			Cool 4 deg C	USEP01	C53	11/19/2024	Chemtech -SO
<u>e</u>		1			Date/Time	12-12-21	12,40	0
Raw Sample Relinquished by:	lished by:	Γ.			Raw Sample Received by:	Received by:	8	an
		1	Page 1 of 1	_	Raw Sample F	Raw Sample Relinquished by:	The LEED C	2