SDG COVER PAGE

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

Lab Code: ACE Case No.: 51698 MA No.: SDG No.: MBHCJ7

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHCJ7	P4499-01	X		X	X
MBHCJ8	P4499-02	X		X	X
MBHCJ9	P4499-03	X		X	X
MBHCK0	P4499-04	X		X	X
MBHCK1	P4499-05	X		X	X
MBHCK2	P4499-06	X		X	X
MBHCK8	P4499-07	X		X	X
MBHCK9	P4499-08	X		X	X
MBHCL0	P4499-09	X		X	X
MBHCL1	P4499-10	X		X	X
MBHCL2	P4499-11	X		X	X
MBHCY0	P4499-12	X		X	X
MBHCL8	P4499-13	X		X	X
MBHCL9	P4499-14	X		X	X
MBHCM0	P4499-15	X		X	X
MBHCM1	P4499-16	X		X	X
MBHCM2	P4499-17	X		X	X
MBHCM8	P4499-18	X		X	X
MBHCM9	P4499-19	X		X	X
MBHCN0	P4499-20	X		X	X
MBHCN0D	P4499-21	X		X	X
MBHCN0S	P4499-22	X		X	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:

USEPA CLP COC (LAB COPY)
DateShipped: 10/22/2024
CarrierName: FedEx
AirbillNo: 779427608339

CHAIN OF CUSTODY RECORD

Case #: 51698
Cooler #: 2 of 5

No: 2-102224-0030-5005-02
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
P065-SS013-0006-01	MBHCH8	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 13	10/18/2024 11:40	
P065-SS013-0612-01	MBHCH9	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 13	10/18/2024 11:45	
P065-SS013-1218-01	MBHCJ0	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 13	10/18/2024 11:50	
P065-SS013-1824-01	MBHCJ1	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 13	10/18/2024 11:55	
P065-SS013-2430-01	MBHCJ2	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 13	10/18/2024 12:00	
P065-SS014-0006-01	MBHCJ3	Soil/ START	Grab	Metals + Hg + Cn(180)	D (4 C) (1)	Boring 14	10/17/2024 08:30	
P065-SS014-1218-01	MBHCJ5	Soil/ START	Grab	Metals + Hg + Cn(180)	D (4 C) (1)	Boring 14	10/17/2024 08:36	
P065-SS014-1824-01	MBHCJ6	Soil/ START	Grab	Metals + Hg + Cn(180)	D (4 C) (1)	Boring 14	10/17/2024 08:38	
P065-SS014-2430-01	MBHCJ7	Soil/ START	Grab	Metals + Hg + Cn(180)	D (4 C) (1)	Boring 14	10/17/2024 08:40	✓
P065-SS015-0006-01	MBHCJ8	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 15	10/17/2024 09:00	✓

Special Instructions: Please email results to s.sumbaly@westonsolutions.com and hector.rodriguez-cesani@westonsolutions.com. 21 day validated TAT.

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: Metals + Hg + Cn=TAL Metals + Hg + Cn

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	Start V	10.22.24/1000	Fed Ex		
				10-23-24 0950	2.1°C IR Gun #1
					custody seals intact
					Temp BN. present

68HERH20D0011 SDG # MBHCJ7

USEPA CLP COC (LAB COPY)
DateShipped: 10/22/2024
CarrierName: FedEx
AirbillNo: 779427608339

CHAIN OF CUSTODY RECORD

Case #: 51698
Cooler #: 2 of 5

No: 2-102224-0030-5005-02
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
P065-SS015-0612-01	MBHCJ9	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 15	10/17/2024 09:04	
P065-SS015-1218-01	MBHCK0	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 15	10/17/2024 09:07	
P065-SS015-1824-01	MBHCK1	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 15	10/17/2024 09:10	
P065-SS015-2430-01	MBHCK2	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 15	10/17/2024 09:13	
P065-SS017-0006-01	MBHCK8	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 17	10/18/2024 13:00	
P065-SS017-0612-01	MBHCK9	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 17	10/18/2024 13:05	
P065-SS017-1218-01	MBHCL0	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 17	10/18/2024 13:10	
P065-SS017-1824-01	MBHCL1	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 17	10/18/2024 13:15	
P065-SS017-2430-01	MBHCL2	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 17	10/18/2024 13:20	
P065-SS014-3042-01	MBHCY0	Soil/ START	Grab	Metals + Hg + Cn(180)	C (4 C) (1)	Boring 14	10/17/2024 08:43	

Special Instructions: Please email results to s.sumbaly@westonsolutions.com and hector.rodriguez-cesani@westonsolutions.com. 21 day validated TAT.

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: Metals + Hg + Cn=TAL Metals + Hg + Cn

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	/Start V	102224/1100	FedEx		
				10-23-24 0950	21°C IR GUN #1
					Custody Seals Intact
					Temp Blk. present

68HERH20D0011 SDG # MBHCJ7

USEPA CLP COC (LAB COPY)
DateShipped: 10/22/2024
CarrierName: FedEx
AirbillNo: 779427626095

CHAIN OF CUSTODY RECORD

Case #: 51698
Cooler #: 3 of 5

No: 2-102224-0030-5005-03
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
P065-SS019-0006-01	MBHCL8	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 19	10/18/2024 13:50	
P065-SS019-0612-01	MBHCL9	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 19	10/18/2024 13:55	
P065-SS019-1218-01	MBHCM0	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 19	10/18/2024 14:00	
P065-SS019-1824-01	MBHCM1	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 19	10/18/2024 14:05	
P065-SS019-2430-01	MBHCM2	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 19	10/18/2024 14:10	
P065-SS021-0006-01	MBHCM8	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 21	10/16/2024 13:40	
P065-SS021-0612-01	MBHCM9	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 21	10/16/2024 13:45	
P065-SS021-1218-01	MBHCN0	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (2)	Boring 21	10/16/2024 13:50	
P065-SS021-1824-01	MBHCN1	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 21	10/16/2024 13:55	
P065-SS021-2430-01	MBHCN2	Soil/ START	Grab	Metals + Hg + Cn(180)	M (4 C) (1)	Boring 21	10/16/2024 14:00	

Sample(s) to be used for Lab QC: P065-SS021-1218-01 Tag M - Special Instructions: Please email results to s.sumbaly@westonsolutions.com and hector.rodriguez-cesani@westonsolutions.com. 21 day validated TAT.

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: Metals + Hg + Cn=TAL Metals + Hg + Cn

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	Start V	10/22/[illegible]	Fed Ex		
				10-23-24 0950	2.3°C IR Gun #1
					custody seals intact
					Temp blk present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 2
Received By (Print Name)	Gonge Negash	Log-in Date 10/23/2024
Received By (Signature)		
Case Number 51698	SDG No. MBHCJ7	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
.. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779427608339 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	10/23/2024
12.Time Received	09:50

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHCJ7	N/A	D	P4499-01	Intact
2	MBHCJ8	N/A	Y	P4499-02	Intact
3	MBHCJ9	N/A	M	P4499-03	Intact
4	MBHCK0	N/A	M	P4499-04	Intact
5	MBHCK1	N/A	M	P4499-05	Intact
6	MBHCK2	N/A	M	P4499-06	Intact
7	MBHCK8	N/A	Y	P4499-07	Intact
8	MBHCK9	N/A	M	P4499-08	Intact
9	MBHCL0	N/A	M	P4499-09	Intact
10	MBHCL1	N/A	M	P4499-10	Intact
11	MBHCL2	N/A	M	P4499-11	Intact
12	MBHCY0	N/A	C	P4499-12	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	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	10/23/24	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 2
Received By (Print Name)	Gongs Negron	Log-in Date **10/23/2024**
Received By (Signature)		
Case Number 51698	SDG No. MBHCJ7	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.	779427626095 2
Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.3 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	10/23/2024
12.Time Received	09:50

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHCL8	N/A	Y	P4499-13	Intact
2	MBHCL9	N/A	M	P4499-14	Intact
3	MBHCM0	N/A	M	P4499-15	Intact
4	MBHCM1	N/A	M	P4499-16	Intact
5	MBHCM2	N/A	M	P4499-17	Intact
6	MBHCM8	N/A	Y	P4499-18	Intact
7	MBHCM9	N/A	M	P4499-19	Intact
8	MBHCN0	N/A	M	P4499-20	Intact
9	MBHCN0D	N/A	M	P4499-21	Intact
10	MBHCN0S	N/A	M	P4499-22	Intact
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		Logbook No.	N/A
Date	10/23/24	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.	**51698**	SDG NO.	**MBHCJ7**
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	4	✓	
3 . Sample Log-In Sheet (DC-1)	5	6	✓	
4 . CSF Inventory Sheet (DC-2)	7	9	✓	
5 . SDG Narrative	10	13	✓	
6 . Communication Logs	NA	NA	✓	
7 . Percent Solids Log	14	16	✓	
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	17	36	✓	
9 . Instrument raw data by instrument in analysis order	37	1132	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	1133	1301	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1302	1303	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1304	1333	✓	
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	1334	1353	✓	
27. Instrument raw data by instrument in analysis order	1354	1356	✓	
Other Data				
28. Standard and Reagent Preparation Logs	1357	1383	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1384	1385	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1386	1390	✓	
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	1391	1410	✓	
36. Instrument raw data by instrument in analysis order	1411	1415	✓	
Other Data				
37. Standard and Reagent Preparation Logs	1416	1445	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1446	1447	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1448	1451	✓	
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 2)	1452	1453	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1454	1456	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1457	1462	✓	
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 # MBHCJ7
CASE # 51698
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4499

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 10/23/2024.

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, Mercury, Cyanide.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.1^{o}C, 2.3^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1 : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution 1 : 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.

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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 MBHCJ7 For Cobalt:

If C = 0.2792361 ppm
Vf = 100 ml
W = 1.30g
S = 0.844(84.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.2792361 \times \frac{100}{1.30 \times 0.844} \times 1$$

$$= 25.4498 \text{ mg/kg}$$

$$= 25 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for Hg Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

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Mountainside, NJ 07092

Example Calculation For Sample MBHCJ7:

If C =0.3594 ppb
Vf = 100 mL
W = 0.51g
S = 0.844(84.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.3594 \times \frac{100}{0.51 \times 0.844} \times 1 / 1000$$

$$= 0.08349 \text{ mg/kg}$$

$$= 0.083 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for CN Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg:

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L CN from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MBHCJ9:

If C = 3.795 ppb
Vf = 50 ml
W = 1.02 g
S = 0.791(79.1 /100)
DF = 1

$$\text{Concentration (mg/kg)} = 3.795 \times \frac{50}{1.02 \times 0.791} \times 1 / 1000$$

$$= 0.23518 \text{ mg/kg}$$

$$= 0.24 \text{ mg/kg (Reported Result with Signification)}$$

284 Sheffield Street
Mountainside, NJ 07092

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, Cobalt, Copper, Thallium. Duplicate sample did meet requirements except for Barium, Chromium, Cobalt, Copper, Iron, Potassium, Zinc. 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: 10/24/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:50
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:17
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133076

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
P4499-01	MBHCJ7	1	1.16	8.48	9.64	8.32	84.4	
P4499-02	MBHCJ8	2	1.15	8.40	9.55	8.27	84.8	
P4499-03	MBHCJ9	3	1.15	8.60	9.75	7.95	79.1	
P4499-04	MBHCK0	4	1.16	8.51	9.67	7.99	80.3	
P4499-05	MBHCK1	5	1.12	8.76	9.88	8.09	79.6	
P4499-06	MBHCK2	6	1.12	8.77	9.89	7.94	77.8	
P4499-07	MBHCK8	7	1.12	8.77	9.89	9.32	93.5	
P4499-08	MBHCK9	8	1.15	8.39	9.54	8.85	91.8	
P4499-09	MBHCL0	9	1.17	8.53	9.7	9.04	92.3	
P4499-10	MBHCL1	10	1.15	8.84	9.99	9.25	91.6	
P4499-11	MBHCL2	11	1.15	8.42	9.57	8.59	88.4	
P4499-12	MBHCY0	12	1.18	8.46	9.64	7.27	72.0	
P4499-13	MBHCL8	13	1.14	8.66	9.8	8.36	83.4	
P4499-14	MBHCL9	14	1.18	8.48	9.66	8.38	84.9	
P4499-15	MBHCM0	15	1.19	8.66	9.85	7.89	77.4	
P4499-16	MBHCM1	16	1.19	8.50	9.69	8.76	89.1	
P4499-17	MBHCM2	17	1.15	8.73	9.88	8.14	80.1	
P4499-18	MBHCM8	18	1.15	8.83	9.98	8.39	82.0	
P4499-19	MBHCM9	19	1.16	8.50	9.66	8.85	90.5	
P4499-20	MBHCN0	20	1.14	8.85	9.99	8.72	85.6	
P4499-21	MBHCN0D	21	1.14	8.85	9.99	8.72	85.6	
P4499-22	MBHCN0S	22	1.14	8.85	9.99	8.72	85.6	

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

WORKLIST(Hardcopy Internal Chain)

VB 133076

WorkList Name : $1-p4499 **WorkList ID :** 184712 **Department :** Wet-Chemistry **Date :** 10-23-2024 14:59:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4499-01	MBHCJ7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-02	MBHCJ8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-03	MBHCJ9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/17/2024	Chemtech -SO
P4499-04	MBHCK0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/17/2024	Chemtech -SO
P4499-05	MBHCK1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/17/2024	Chemtech -SO
P4499-06	MBHCK2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/17/2024	Chemtech -SO
P4499-07	MBHCK8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-08	MBHCK9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-09	MBHCL0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-10	MBHCL1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-11	MBHCL2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-12	MBHCY0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/17/2024	Chemtech -SO
P4499-13	MBHCL8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-14	MBHCL9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-15	MBHCM0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-16	MBHCM1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-17	MBHCM2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/18/2024	Chemtech -SO
P4499-18	MBHCM8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/16/2024	Chemtech -SO
P4499-19	MBHCM9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/16/2024	Chemtech -SO
P4499-20	MBHCN0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/16/2024	Chemtech -SO
P4499-21	MBHCN0D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/16/2024	Chemtech -SO

Date/Time 10/23/24 15:10

Raw Sample Received by: JD (WDC)

Raw Sample Relinquished by: SH

Date/Time 10/23/24 16:00

Raw Sample Received by: SH

Raw Sample Relinquished by: JD WDC

VB133076

WORKLIST(Hardcopy Internal Chain)

WorkList Name : $1-p4499 **WorkList ID :** 184712 **Department :** Wet-Chemistry **Date :** 10-23-2024 14:59:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4499-22	MBHCN0S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/16/2024	Chemtech -SO

Date/Time 10/23/24 15:10

Raw Sample Received by: TO WDC

Raw Sample Relinquished by: SM

Date/Time 10/23/24 16:00

Raw Sample Received by: SM

Raw Sample Relinquished by: TO WDC