

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51847 MA No.: _____ SDG No.: ME28Q6
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method			
		ICP-AES	ICP-MS	Mercury	Cyanide
ME28Q6	P5156-01	X	X	X	X
ME28Q7	P5156-02	X	X	X	X
ME28Q8	P5156-03	X	X	X	X
ME28Q9	P5156-04	X	X	X	X
ME28R0	P5156-05	X	X	X	X
ME28R1	P5156-06	X	X	X	X
ME28R2	P5156-07	X	X	X	X
ME28T4	P5156-08	X	X	X	X
ME28T5	P5156-09	X	X	X	X
ME28T6	P5156-10	X	X	X	X
ME28T7	P5156-11	X	X	X	X
ME28T8	P5156-12	X	X	X	X
ME28T9	P5156-13	X	X	X	X
ME28W0	P5156-14	X	X	X	X
ME28W1	P5156-15	X	X	X	X
ME28W2	P5156-16	X	X	X	X
ME28W2D	P5156-17	X	X	X	X
ME28W2S	P5156-18	X	X	X	X
ME28W3	P5156-19	X	X	X	X
ME28W4	P5156-20	X	X	X	X
ME28W5	P5156-21	X	X	X	X
ME28W6	P5156-22	X	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)

Date Shipped: 12/5/2024

Carrier Name: UPS

Airbill No: 1Z93947Y4400331285

CHAIN OF CUSTODY RECORD

Case #: 51847

Cooler #: 5

No: 5-120524-173144-0300

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed


Lab Phone: 908-728-3151

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
IA14DRUM02-0-0.5	E28R3	Soil	Grab	Semivolatiles, PAHs+PCP by SIM (TAT 21 Days)(21), ARO+PEST(21), VOA(21)	2931, 4434, 4436 (MeOH), 4437, 4438 (6)	IA-14-DRUM-02	12/05/2024 14:50	
DR-24-100	E28R4	Soil	Grab	Semivolatiles, PAHs+PCP by SIM (TAT 21 Days)(21), ARO+PEST(21), VOA(21)	2931, 4439, 4441 (MeOH), 4442, 4443 (6)	DR-24-100	12/05/2024 14:50	
IA14DRUM09-0-0.5	ME28Q6	Soil	Grab	ICP-MS/AES+HG+CN(21)	4400 (1)	IA-14-DRUM-09	12/05/2024 13:00	
IA02MMW04-0-0.5	ME28Q7	Soil	Grab	ICP-MS/AES+HG+CN(21)	4405 (1)	IA-02-MMW-04	12/05/2024 09:25	
IA02MMW04-4-5	ME28Q8	Soil	Grab	ICP-MS/AES+HG+CN(21)	4410 (1)	IA-02-MMW-04	12/05/2024 09:35	
IA11SB06-0-0.5	ME28Q9	Soil	Grab	ICP-MS/AES+HG+CN(21)	4415 (1)	IA-11-SB-06	12/05/2024 14:00	
IA11SB06-0.5-2	ME28R0	Soil	Grab	ICP-MS/AES+HG+CN(21)	4420 (1)	IA-11-SB-06	12/05/2024 14:10	
IA11SB06-37-38	ME28R1	Soil	Grab	ICP-MS/AES+HG+CN(21)	4425 (1)	IA-11-SB-06	12/05/2024 14:25	
IA14DRUM01-0-0.5	ME28R2	Soil	Grab	ICP-MS/AES+HG+CN(21)	4430 (1)	IA-14-DRUM-01	12/05/2024 14:00	
IA14DRUM02-0-0.5	ME28R3	Soil	Grab	ICP-MS/AES+HG+CN(21)	4435 (1)	IA-14-DRUM-02	12/05/2024 14:50	
DR-24-100	ME28R4	Soil	Grab	ICP-MS/AES+HG+CN(21)	4440 (1)	DR-24-100	12/05/2024 14:50	

Special Instructions: Please return cooler with enclosed airbill (1Z93947Y0304913430).

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

Analysis Key: ARO=Aroclors, VOA=Volatiles, ARO+PEST=Aroclors + Pesticides, ICP-MS/AES+HG+CN=ICP-AES/MS (5-10, 11+) +HG+CN

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		1130 12-5-24	UPS	1054 12-6-24	2x Cooler 2x 1" Custody Seal Intact Temp 91°F post

No: 5-121024-134229-0304

Lab Phone: 908-728-3151

[illegible]

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

Analysis Key: ARO+PEST=Arroclors + Pesticides, VOA=Volatiles, ARO=Arroclors, ICP-MS/AES+HG+CN=ICP-AES/MS (5-10, 11)+HG+CN

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Cona-Lyon, Plexus	4/10/24	4/10/24	12/10/24	good, at home
				12-11-24 1043	2-2-c JAL gear #1
					custody and impact
					Team JAL-Mercer

custody and impact

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>3</u>
Received By (Print Name) <u>Carmona Poria</u>		Log-in Date 12/6/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51847	SDG No. ME28Q6	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y4400331285</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.1</u> 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	<u>12/06/2024</u>
12. Time Received	<u>10:57</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME28Q6	N/A	4400	P5156-01	Intact
2	ME28Q7	N/A	4405	P5156-02	Intact
3	ME28Q8	N/A	4410	P5156-03	Intact
4	ME28Q9	N/A	4415	P5156-04	Intact
5	ME28R0	N/A	4420	P5156-05	Intact
6	ME28R1	N/A	4425	P5156-06	Intact
7	ME28R2	N/A	4430	P5156-07	Intact
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
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 <u>[Signature]</u>	Logbook No. N/A
Date <u>12/6/24</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>2</u> of <u>3</u>
Received By (Print Name) <u>Osagorwa Rice</u>		Log-in Date 12/10/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51847	SDG No. ME28Q6	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y0131971553</u> <u>2</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.0</u> 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	<u>12/10/2024</u>
12. Time Received	<u>10:58</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME28T4	N/A	4546	P5156-08	Intact
2	ME28T5	N/A	4551	P5156-09	Intact
3	ME28T6	N/A	4556	P5156-10	Intact
4	ME28T7	N/A	4561	P5156-11	Intact
5	ME28T8	N/A	4566	P5156-12	Intact
6	ME28T9	N/A	4571	P5156-13	Intact
7	ME28W0	N/A	4576	P5156-14	Intact
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
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 <u>[Signature]</u>	Logbook No. N/A
Date <u>12/10/24</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>3</u> of <u>3</u>
Received By (Print Name) <u>George Nefanon</u>		Log-in Date 12/11/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51847	SDG No. ME28Q6	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y0123063362</u> <u>3</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.2</u> 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	<u>12/11/2024</u>
12. Time Received	<u>10:43</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME28W1	N/A	4581	P5156-15	Intact
2	ME28W2	N/A	4586	P5156-16	Intact
3	ME28W2D	N/A	4586	P5156-17	Intact
4	ME28W2S	N/A	4586	P5156-18	Intact
5	ME28W3	N/A	4591	P5156-19	Intact
6	ME28W4	N/A	4596	P5156-20	Intact
7	ME28W5	N/A	4601	P5156-21	Intact
8	ME28W6	N/A	4606	P5156-22	Intact
9	N/A	N/A	N/A	N/A	N/A
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 <u>[Signature]</u>	Logbook No. N/A
Date <u>12/11/24</u>	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.	51847	SDG NO.	ME28Q6
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	4	✓	
3. Sample Log-In Sheet (DC-1)	5	7	✓	
4. CSF Inventory Sheet (DC-2)	8	10	✓	
5. SDG Narrative	11	15	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	16	18	✓	
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	19	38	✓	
9. Instrument raw data by instrument in analysis order	39	821	✓	
Other Data				
10. Standard and Reagent Preparation Logs	822	971	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	972	973	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	974	997	✓	
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	998	1017	✓	
18. Instrument raw data by instrument in analysis order	1018	2124	✓	
Other Data				
19. Standard and Reagent Preparation Logs	2125	2254	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	2255	2256	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2257	2266	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	<u>PAGE NOS:</u>		<u>CHECK</u>	
	<u>FROM</u>	<u>TO</u>	<u>LAB</u>	<u>REGION</u>
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	2267	2286	✓	
27 . Instrument raw data by instrument in analysis order	2287	2288	✓	

Other Data

28 . Standard and Reagent Preparation Logs	2289	2313	✓	
29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	2314	2315	✓	
30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2316	2317	✓	
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	2318	2337	✓	
36 . Instrument raw data by instrument in analysis order	2338	2342	✓	

Other Data

37 . Standard and Reagent Preparation Logs	2343	2372	✓	
38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	2373	2374	✓	
39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2375	2378	✓	
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	✓	

Additional

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 3)

Sample Tags

Sample Log-In Sheet (Lab)

45. Misc. Shipping/Receiving Records (list all individual records)

46. Internal Lab Sample Transfer Records and Tracking Sheets
(describe or list)

47. Other Records and related Communication Logs
(describe or list)

48. Comments:

Completed by:
(CLP Lab)

(Signature)

Nimisha Pandya, Document Control Officer
(Print Name & Title)

(Date)

Audited by:
(EPA)

(Signature)

(Print Name & Title)

(Date)

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
2379	2381	✓	
NA	NA	✓	
2382	2385	✓	
NA	NA	✓	
2386	2393	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # ME28Q6

CASE # 51847

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # P5156

A. Number of Samples and Date of Receipt

22 Soil samples were delivered to the laboratory intact on 11/06/2024, 11/10/2024, 11/11/2024.

B. Parameters

Test requested for Metals CLP12= Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium & Mercury, Cyanide.

Test requested for Metals CLP MS FULL = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 2.1°C, 2.0°C, 2.2°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.



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Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

G. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

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

Where,

C = Instrument value in ppm (The average of all replicate exposures)

V_f = 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 ME28Q6 For Aluminum:

If C = 76.93617 ppm

V_f = 100 ml

W = 1.27g

S = 0.826(82.6/100)

DF = 1

$$\text{Concentration (mg/kg)} = 76.93617 \times \frac{100}{1.27 \times 0.826} \times 1$$

$$= 7334.099 \text{ mg/kg}$$

$$= 7300 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for ICP-MS Soil Sample:

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

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

Where,

C = Instrument value in ppb (The average of all replicate integrations)

V_f = Final digestion volume (mL)

W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)



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S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

Example Calculation For Sample ME28Q6 For Arsenic :

If C = 18.24 ppb

Vf = 500 ml

W = 1.18 g

S = 0.826 (82.6/100)

DF = 1

$$\text{Concentration (mg/kg)} = 18.24 \times \frac{500}{1.18 \times 0.826} \times 1 / 1000$$

$$= 9.3569 \text{ mg/kg}$$

$$= 9.4 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for Hg Soil Sample:

Conversion of Results from $\mu\text{g/L}$ or ppb to mg/kg :

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

Where,

C = Instrument response in $\mu\text{g/L}$ 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

Example Calculation For Sample ME28Q6:

If C = 1.0106 ppb

Vf = 100 mL

W = 0.53 g

S = 0.826(82.6/100)

DF = 1

$$\text{Concentration (mg/kg)} = 1.0106 \times \frac{100}{0.53 \times 0.826} \times 1 / 1000$$

$$= 0.23084 \text{ mg/kg}$$

$$= 0.23 \text{ mg/kg (Reported Result with Signification)}$$



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Calculation for CN Soil Sample:

Conversion of Results from $\mu\text{g/L}$ or ppb to mg/kg :

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

Where,

C = Instrument response in $\mu\text{g/L}$ 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 ME28R2:

If C = 8.0335ppb

Vf = 50 ml

W = 1.02 g

S = 0.724(72.4/100)

DF = 1

$$\text{Concentration (mg/kg)} = 8.0335 \times \frac{50}{1.02 \times 0.724} \times 1 / 1000$$

$$= 0.5439 \text{ mg/kg}$$

$$= 0.54 \text{ mg/kg (Reported Result with Signification)}$$

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. Duplicate sample did meet. Serial Dilution did meet requirements except for Copper.

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.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.



**284 Sheffield Street
Mountainside, NJ 07092**

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

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: 12:50
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: 07:20
Out Date: 12/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB133905

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
P5156-01	ME28Q6	1	1.15	8.47	9.62	8.15	82.6	
P5156-02	ME28Q7	2	1.15	8.81	9.96	9.04	89.6	
P5156-03	ME28Q8	3	1.15	8.54	9.69	9.06	92.6	
P5156-04	ME28Q9	4	1.14	8.60	9.74	9.22	94.0	
P5156-05	ME28R0	5	1.13	8.74	9.87	9.2	92.3	
P5156-06	ME28R1	6	1.16	8.83	9.99	8.46	82.7	
P5156-07	ME28R2	7	1.15	8.38	9.53	7.22	72.4	
P5156-08	ME28T4	8	1.19	8.73	9.92	8.27	81.1	
P5156-09	ME28T5	9	1.16	8.44	9.6	7.72	77.7	
P5156-10	ME28T6	10	1.17	8.80	9.97	8.36	81.7	
P5156-11	ME28T7	11	1.16	8.65	9.81	8.34	83.0	
P5156-12	ME28T8	12	1.15	8.81	9.96	8.57	84.2	
P5156-13	ME28T9	13	1.13	8.76	9.89	7.86	76.8	
P5156-14	ME28W0	14	1.15	8.49	9.64	7.75	77.7	
P5156-15	ME28W1	15	1.16	8.57	9.73	7.88	78.4	
P5156-16	ME28W2	16	1.16	8.80	9.96	7.79	75.3	
P5156-17	ME28W2D	17	1.16	8.80	9.96	7.79	75.3	
P5156-18	ME28W2S	18	1.16	8.80	9.96	7.79	75.3	
P5156-19	ME28W3	19	1.15	8.44	9.59	7.77	78.4	
P5156-20	ME28W4	20	1.15	8.76	9.91	8.23	80.8	
P5156-21	ME28W5	21	1.15	8.39	9.54	7.7	78.1	
P5156-22	ME28W6	22	1.19	8.43	9.62	7.76	77.9	

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

WORKLIST(Hardcopy Internal Chain)

139905

WorkList Name : %1-p5156

WorkList ID : 186269

Department : Wet-Chemistry

Date : 12-12-2024 09:18:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5156-01	ME28Q6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/05/2024	Chemtech -SO
P5156-02	ME28Q7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/05/2024	Chemtech -SO
P5156-03	ME28Q8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/05/2024	Chemtech -SO
P5156-04	ME28Q9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/05/2024	Chemtech -SO
P5156-05	ME28R0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/05/2024	Chemtech -SO
P5156-06	ME28R1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/05/2024	Chemtech -SO
P5156-07	ME28R2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/05/2024	Chemtech -SO
P5156-08	ME28T4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/05/2024	Chemtech -SO
P5156-09	ME28T5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/09/2024	Chemtech -SO
P5156-10	ME28T6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/09/2024	Chemtech -SO
P5156-11	ME28T7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/09/2024	Chemtech -SO
P5156-12	ME28T8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/09/2024	Chemtech -SO
P5156-13	ME28T9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/09/2024	Chemtech -SO
P5156-14	ME28W0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/09/2024	Chemtech -SO
P5156-15	ME28W1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/09/2024	Chemtech -SO
P5156-16	ME28W2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/10/2024	Chemtech -SO
P5156-17	ME28W2D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/10/2024	Chemtech -SO
P5156-18	ME28W2S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/10/2024	Chemtech -SO
P5156-19	ME28W3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/10/2024	Chemtech -SO
P5156-20	ME28W4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/10/2024	Chemtech -SO
P5156-21	ME28W5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/10/2024	Chemtech -SO

Date/Time 12.12.24 11:40
 Raw Sample Received by: JB WC
 Raw Sample Relinquished by: JB WC

Date/Time 12.12.24
 Raw Sample Received by: JB WC
 Raw Sample Relinquished by: JB WC

WORKLIST(Hardcopy Internal Chain)

✓ 139905

WorkList Name : %1-p5156 WorkList ID : 186269 Department : Wet-Chemistry Date : 12-12-2024 09:18:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5156-22	ME28W6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	12/10/2024	Chemtech -SO

Date/Time 12.12.24
Raw Sample Received by: JB WLC
Raw Sample Relinquished by: JWSH

Date/Time 12.12.24
Raw Sample Received by: JWSH
Raw Sample Relinquished by: JB WLC