SDG COVER PAGE

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

Lab Code: ACE Case No.: 51847 MA No.: SDG No.: ME28Y6

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
ME28Y6	P5266-01	X	X	X	X
ME28Y7	P5266-02	X	X	X	X
ME28Y8	P5266-03	X	X	X	X
ME28Y9	P5266-04	X	X	X	X
ME28Z0	P5266-05	X	X	X	X
ME28Z1	P5266-06	X	X	X	X
ME28Z2	P5266-07	X	X	X	X
ME28Z3	P5266-08	X	X	X	X
ME28Z4	P5266-09	X	X	X	X
ME28Z5	P5266-10	X	X	X	X
ME28Z6	P5266-11	X	X	X	X
ME28Z7	P5266-12	X	X	X	X
ME28Z8	P5266-13	X	X	X	X
ME28Z9	P5266-14	X	X	X	X
ME2900	P5266-15	X	X	X	X
ME2901	P5266-16	X	X	X	X
ME2902	P5266-17	X	X	X	X
ME2903	P5266-18	X	X	X	X
ME28Y9D	P5266-19	X	X	X	X
ME28Y9S	P5266-20	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)
DateShipped: 12/11/2024
CarrierName: UPS
AirbillNo: 1Z93947Y0137513993

CHAIN OF CUSTODY RECORD

Case #: 51847
Cooler #: 12

No: 5-121124-150540-0307
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
IA15AST33-0-0.5	E28Z3	Soil/	Grab	Semivolatiles, PAHs+PCP by SIM (TAT 21 Days)(21), ARO(21), VOA(21)	2931, 4740, 4742 (MeOH), 4743, 4744 (6)	IA-15-AST-33	12/11/2024 11:40	
IA15AST34-0-0.5	E28Z4	Soil/	Grab	Semivolatiles, PAHs+PCP by SIM (TAT 21 Days)(21), ARO(21), VOA(21)	2931, 4745, 4747 (MeOH), 4748, 4749 (6)	IA-15-AST-34	12/11/2024 12:15	
IA11MW06-37-38	ME28Y6	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4706 (1)	IA-11-MW-06	12/11/2024 09:50	1
IA15AST28-0-0.5	ME28Y7	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4711 (1)	IA-15-AST-28	12/11/2024 09:20	2
IA15AST29-0-0.5	ME28Y8	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4716 (1)	IA-15-AST-29	12/11/2024 09:50	3
IA15AST30-0-0.5	ME28Y9	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4721 (1)	IA-15-AST-30	12/11/2024 10:20	4 dup
AST-24-104	ME28Z0	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4726 (1)	AST-24-104	12/11/2024 10:20	5
IA15AST31-0-0.5	ME28Z1	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4731 (1)	IA-15-AST-31	12/11/2024 10:50	6
IA15AST32-0-0.5	ME28Z2	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4736 (1)	IA-15-AST-32	12/11/2024 11:20	7
IA15AST33-0-0.5	ME28Z3	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4741 (1)	IA-15-AST-33	12/11/2024 11:40	8
IA15AST34-0-0.5	ME28Z4	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4746 (1)	IA-15-AST-34	12/11/2024 12:15	9

Special Instructions: Please return cooler with enclosed airbill (1Z93947Y0316313708).

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
	Conor Ryan, Pleiad	12/11/24	UPS	12/11/24	good, at temp
				11:00 12-12-24	Thermal 1 2.3°C Custody Seal Intact
					Temp Blank present

68HERH20D0011 SDG # ME28Y6

USEPA CLP COC (LAB COPY)
DateShipped: 12/11/2024
CarrierName: UPS
AirbillNo: 1Z93947Y0121602603

CHAIN OF CUSTODY RECORD

Case #: 51847
Cooler #: 13

No: 5-121124-154744-0308
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
IA15AST37-0-0.5	E2902	Soil/	Grab	Semivolatiles, PAHs+PCP by SIM (TAT 21 Days)(21), ARO(21), VOA(21)	2931, 4785, 4787 (MeOH), 4788, 4789 (6)	IA-15-AST-37	12/11/2024 15:40	
IA15AST39-0-0.5	E2903	Soil/	Grab	Semivolatiles, PAHs+PCP by SIM (TAT 21 Days)(21), ARO(21), VOA(21)	2931, 4790, 4792 (MeOH), 4793, 4794 (6)	IA-15-AST-39	12/11/2024 15:45	
IA15AST35-0-0.5	ME28Z5	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4751 (1)	IA-15-AST-35	12/11/2024 12:40	10
AST-24-105	ME28Z6	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4756 (1)	AST-24-105	12/11/2024 12:40	11
IA02TP16-5-6	ME28Z7	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4761 (1)	IA-02-TP-16	12/11/2024 11:30	12
TP-24-103	ME28Z8	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4766 (1)	TP-24-103	12/11/2024 11:30	13
IA02TP16-3-4	ME28Z9	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4771 (1)	IA-02-TP-16	12/11/2024 11:40	14
IA15AST36-0-0.5	ME2900	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4776 (1)	IA-15-AST-36	12/11/2024 14:40	15
IA15AST38-0-0.5	ME2901	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4781 (1)	IA-15-AST-38	12/11/2024 15:05	16
IA15AST37-0-0.5	ME2902	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4786 (1)	IA-15-AST-37	12/11/2024 15:40	17
IA15AST39-0-0.5	ME2903	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4791 (1)	IA-15-AST-39	12/11/2024 15:45	18

Special Instructions: Please return cooler with enclosed airbill (1Z93947Y0315525517).

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

Analysis Key: ARO+PEST=Aroclors + Pesticides, VOA=Volatiles, ARO=Aroclors, 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
	[signature], Pleasant	12/11/24	UPS	12/11/24	Good at time
			[signature]	11:00 12-12-24	IR Gun #1 2.0 Custody Seal Intact
					Temp Blank present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 2
Received By (Print Name) Assanee Rai		Log-in Date 12/12/2024
Received By (Signature)		
Case Number 51847	SDG No. ME28Y6	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.	1Z93947Y0137513993 1
6. 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	12/12/2024
12.Time Received	11:00

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	ME28Y6	N/A	4706	P5266-01	Intact
2	ME28Y7	N/A	4711	P5266-02	Intact
3	ME28Y8	N/A	4716	P5266-03	Intact
4	ME28Y9	N/A	4721	P5266-04	Intact
5	ME28Z0	N/A	4726	P5266-05	Intact
6	ME28Z1	N/A	4731	P5266-06	Intact
7	ME28Z2	N/A	4736	P5266-07	Intact
8	ME28Z3	N/A	4741	P5266-08	Intact
9	ME28Z4	N/A	4746	P5266-09	Intact
10	ME28Y9D	N/A	4721	P5266-19	Intact
11	ME28Y9S	N/A	4721	P5266-20	Intact
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	12/17/24	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) Cesanova Pena		Log-in Date 12/12/2024
Received By (Signature)		
Case Number 51847	SDG No. ME28Y6	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.	1Z93947Y0121602603 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.0 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	12/12/2024
12.Time Received	11:00

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME28Z5	N/A	4751	P5266-10	Intact
2	ME28Z6	N/A	4756	P5266-11	Intact
3	ME28Z7	N/A	4761	P5266-12	Intact
4	ME28Z8	N/A	4766	P5266-13	Intact
5	ME28Z9	N/A	4771	P5266-14	Intact
6	ME2900	N/A	4776	P5266-15	Intact
7	ME2901	N/A	4781	P5266-16	Intact
8	ME2902	N/A	4786	P5266-17	Intact
9	ME2903	N/A	4791	P5266-18	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		Logbook No.	N/A
Date	12/12/24	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.	**51847**	SDG NO.	**ME28Y6**
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	3	✓	
3. Sample Log-In Sheet (DC-1)	4	5	✓	
4. CSF Inventory Sheet (DC-2)	6	8	✓	
5. SDG Narrative	9	14	✓	
6. Communication Logs	15	18	✓	
7. Percent Solids Log	19	20	✓	
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	21	38	✓	
9. Instrument raw data by instrument in analysis order	39	586	✓	
Other Data				
10. Standard and Reagent Preparation Logs	587	723	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	724	725	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	726	744	✓	
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	745	762	✓	
18. Instrument raw data by instrument in analysis order	763	2640	✓	
Other Data				
19. Standard and Reagent Preparation Logs	2641	2784	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	2785	2786	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2787	2803	✓	
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	2804	2821	✓	
27. Instrument raw data by instrument in analysis order	2822	2824	✓	
Other Data				
28. Standard and Reagent Preparation Logs	2825	2849	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	2850	2851	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2852	2855	✓	
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	2856	2873	✓	
36. Instrument raw data by instrument in analysis order	2874	2876	✓	
Other Data				
37. Standard and Reagent Preparation Logs	2877	2906	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	2907	2908	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2909	2910	✓	
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)	2911	2912	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	2913	2916	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	2917	2920	✓	
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 # ME28Y6
CASE # 51847
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5266

A. Number of Samples and Date of Receipt

18 Soil samples were delivered to the laboratory intact on 12/12/2024

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: 2.3^{o}C, 2.0^{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.

Issue 2: SDGs E28Y6,E28Y9 and ME28Y6 require Laboratory QC but no sample was designated on the COC. The laboratory selected samples E28Y9 and ME28Y9 for Laboratory QC of ARO, SVOA, SVOA SIM, PEST, ICP-MS, ICP-AES, CN and Hg analysis and confirmed these samples are not blank, rinsate or PT samples.

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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.

Resolution 2: Per SFAM01.1 Exhibit A, Section 5.5.4.1., 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.

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 ME28Y6 For Aluminum:

If C = 70.83167 ppm
Vf = 100 ml
W = 1.34g
S = 0.839(83.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 70.83167 \times \frac{100}{1.34 \times 0.839} \times 1$$

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= 6300.292 mg/kg

= 6300 mg/kg (Reported Result with Signification)

Calculation for ICP-MS Soil Sample:

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

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

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion 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 ME28Y6 For Arsenic :

If C = 15.39 ppb
Vf = 500 ml
W = 1.27 g
S = 0.839 (83.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 15.39 \times \frac{500}{1.27 \times 0.839} \times 1 / 1000$$

= 7.22179. mg/kg

= 7.2 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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Example Calculation For Sample ME28Y6:

If C = 0.1154 ppb
Vf = 100 mL
W = 0.51 g
S = 0.839(83.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.1154 \times \frac{100}{0.51 \times 0.839} \times 1 / 1000$$

$$= 0.02696 \text{ mg/kg}$$

$$= 0.027 \text{ mg/kg (Reported Result with Signification)}$$

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 ME28Y8:

If C = 10.3673 ppb
Vf = 50 ml
W = 1.02 g
S = 0.827(82.7/100)
DF = 1

$$\text{Concentration (mg/kg)} = 10.3673 \times \frac{50}{1.02 \times 0.827} \times 1 / 1000$$

$$= 0.61451 \text{ mg/kg}$$

$$= 0.62 \text{ mg/kg (Reported Result with Signification)}$$

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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, Arsenic, Cadmium, Selenium, Thallium, Zinc. Duplicate sample did meet except for Mercury. Serial Dilution did meet requirements.

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.

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

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

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Tuesday, December 17, 2024 12:38 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: R5RSCC; Bauer, Heather E; Johnson, Matthew; Helen Britz; Moody, Brett; Gambrah, Derrick; vargas.magda@epa.gov; patel.bhavita@epa.gov
Subject: Region 05 | Case 51847 | Lab ACE | Issue Multiple | FINAL
Attachments: SKM_95824121615090.pdf

Good afternoon,

Insufficient/inappropriate designation of laboratory QC
Issue 1: SDGs E28Y6,E28Y9 and ME28Y6 require Laboratory QC but no sample was designated on the COC. The laboratory selected samples E28Y9 and ME28Y9 for Laboratory QC of ARO, SVOA, SVOA SIM, PEST, ICP-MS, ICP-AES, CN and Hg analysis and confirmed these samples are not blank, rinsate or PT samples.
Resolution 1: Per SFAM01.1 Exhibit A, Section 5.5.4.1., the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Insufficient volume
Issue 2: There is no extra volume for soil VOA Laboratory QC and the laboratory would like to proceed without Laboratory QC for soil VOA analysis.
Resolution 2: Per Region 5, the laboratory will note the issue in the SDG Narrative and proceed without Laboratory QC for soil VOA analysis.

Please note that the laboratory may contact the appropriate CLP PM should any defects need to be waived for this issue.

Best Regards,
Tasmia Zafar
Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 5 & 6

T: (919) 768-4086
tasmia.zafar@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

GENERAL DYNAMICS
information technology

Leave Alert: 12/23/24 and 12/26/24-12/27/24

From: R5RSCC <R5RSCC@epa.gov>
Sent: Tuesday, December 17, 2024 11:38 AM
To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Subject: RE: Region 05 | Case 51847 | Lab ACE | Issue Multiple

Hi Tasmia,

Please have the lab proceed without lab QC for issue #2.

Thanks,
Amanda

Amanda Wroble, Ph.D.
Metals Chemist & Regional Sample Control Coordinator (RSCC)/CRL Sample Coordinator
USEPA Region 5 LSASD/AIMB
Chicago Regional Laboratory
536 S. Clark St. LAB-10C, 10th Floor
Chicago, IL 60605
(312) 353-0375

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Tuesday, December 17, 2024 9:22 AM
To: R5RSCC <R5RSCC@epa.gov>
Subject: Region 05 | Case 51847 | Lab ACE | Issue Multiple

Good morning,

Please advise on Issue 2 below as Issue 1 has been resolved through the SOW.

Insufficient/inappropriate designation of laboratory QC
Issue 1: SDGs E28Y6,E28Y9 and ME28Y6 require Laboratory QC but no sample was designated on the COC. The laboratory selected samples E28Y9 and ME28Y9 for Laboratory QC of ARO, SVOA, SVOA SIM, PEST, ICP-MS, ICP-AES, CN and Hg analysis and confirmed these samples are not blank, rinsate or PT samples.
Resolution 1: Per SFAM01.1 Exhibit A, Section 5.5.4.1., the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Insufficient volume

Issue 2: There is no extra volume for soil VOA Laboratory QC and the laboratory would like to proceed without Laboratory QC for soil VOA analysis.

Best Regards,
Tasmia Zafar
Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 5 & 6

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GENERAL DYNAMICS
information technology

Leave Alert: 12/23/24 and 12/26/24-12/27/24

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Tuesday, December 17, 2024 10:08 AM
To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 05 | Case 51847 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC/QC

Good morning,

Issue 1 : three SDGs E28Y6,E28Y9 and ME28Y6 is open without lab QC. However, a sample was not designated for Laboratory QC. Lab like to use samples E28Y9 and ME28Y9 for Lab QC for PCB,SVOC,SVOC SIM,PEST and ICP-MS,ICP-AES ,CN and HG . there is no extra volume for soil VOC lab QC . The laboratory would like to proceed without Laboratory QC for soil VOC analysis . these samples are not blanks, rinsates or PE samples. Also, please confirm that the any SEDD defect associated to Lab QC will be considered Invalid.

Please see attachment for your reference.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:50
In Date: 12/17/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:45
Out Date: 12/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC: LB133978

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
P5266-01	ME28Y6	1	1.13	8.65	9.78	8.39	83.9	
P5266-02	ME28Y7	2	1.15	8.40	9.55	7.98	81.3	
P5266-03	ME28Y8	3	1.15	8.81	9.96	8.44	82.7	
P5266-04	ME28Y9	4	1.16	8.81	9.97	8.19	79.8	
P5266-05	ME28Z0	5	1.16	8.50	9.66	7.75	77.5	
P5266-06	ME28Z1	6	1.16	8.72	9.88	8.28	81.7	
P5266-07	ME28Z2	7	1.15	8.60	9.75	8.06	80.3	
P5266-08	ME28Z3	8	1.16	8.70	9.86	7.97	78.3	
P5266-09	ME28Z4	9	1.19	8.72	9.91	8.29	81.4	
P5266-10	ME28Z5	10	1.18	8.62	9.8	8.07	79.9	
P5266-11	ME28Z6	11	1.13	8.76	9.89	8.06	79.1	
P5266-12	ME28Z7	12	1.16	8.80	9.96	8.33	81.5	
P5266-13	ME28Z8	13	1.17	8.41	9.58	8.11	82.5	
P5266-14	ME28Z9	14	1.19	8.53	9.72	8.66	87.6	
P5266-15	ME2900	15	1.15	8.84	9.99	8.68	85.2	
P5266-16	ME2901	16	1.14	8.50	9.64	8.12	82.1	
P5266-17	ME2902	17	1.16	8.42	9.58	8.11	82.5	
P5266-18	ME2903	18	1.15	8.83	9.98	7.23	68.9	
P5266-19	ME28Y9D	19	1.16	8.81	9.97	8.19	79.8	
P5266-20	ME28Y9S	20	1.16	8.81	9.97	8.19	79.8	

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

WORKLIST(Hardcopy Internal Chain)

VB133978

WorkList Name : %1-P5266 **WorkList ID :** 186408 **Department :** Wet-Chemistry **Date :** 12-17-2024 14:43:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5266-01	ME28Y6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-02	ME28Y7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-03	ME28Y8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-04	ME28Y9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-05	ME28Z0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-06	ME28Z1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-07	ME28Z2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-08	ME28Z3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-09	ME28Z4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-10	ME28Z5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-11	ME28Z6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-12	ME28Z7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-13	ME28Z8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-14	ME28Z9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-15	ME2900	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-16	ME2901	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-17	ME2902	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-18	ME2903	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-19	ME28Y9D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO
P5266-20	ME28Y9S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	12/11/2024	Chemtech -SO

Date/Time 12-17-24 1510

Raw Sample Received by: JD Weir

Raw Sample Relinquished by: [signature]

Date/Time 12-17-24 1610

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JD Weir