SDG COVER PAGE

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

Lab Code: ACE Case No.: 51835 MA No.: SDG No.: MBH6M8

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBH6M7	P4624-01		X	X	X
MBH6M8	P4624-02		X	X	X
MBH6M9	P4624-03		X	X	X
MBH6N0	P4624-04		X	X	X
MBH6N1	P4624-05		X	X	X
MBH8M6	P4624-06		X	X	X
MBH6N2	P4624-07		X	X	X
MBH6N3	P4624-08		X	X	X
MBH6N4	P4624-09		X	X	X
MBH6N5	P4624-10		X	X	X
MBH6N6	P4624-11		X	X	X
MBH6N6D	P4624-12		X	X	X
MBH6N6S	P4624-13		X	X	X
MBH6N7	P4624-14		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:

68HERH20D0011

SDG # MBH6M8

USEPA CLP COC (LAB COPY)

DateShipped: 10/29/2024

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Case #: 51835

Cooler #: 1

No: 2-1029-0300-0041-03

Lab: Alliance Technical Group, LLC - CLP

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
P001-CF07-01	BH6M7	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1723 (4 C), 1727 (4 C) (3)	CF07	10/29/2024 10:10	
P001-CF08-01	BH6M8	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1731 (4 C), 1735 (4 C) (3)	CF08	10/29/2024 10:15	
P001-CF09-01	BH6M9	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1739 (4 C), 1743 (4 C) (3)	CF09	10/29/2024 10:20	
P001-CF10-01	BH6N0	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1747 (4 C), 1751 (4 C) (3)	CF10	10/29/2024 10:30	
P001-CF11-01	BH6N1	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1755 (4 C), 1759 (4 C) (3)	CF11	10/29/2024 10:40	
P001-CF06-01	BH8M6	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1382 (4 C), 1627 (4 C) (3)	CF06	10/29/2024 10:05	
P001-CF07-01	MBH6M7	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1724 (4 C), 1728 (4 C) (3)	CF07	10/29/2024 10:10	1
P001-CF08-01	MBH6M8	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1732 (4 C), 1736 (4 C) (3)	CF08	10/29/2024 10:15	2 MS/MSD
P001-CF09-01	MBH6M9	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1740 (4 C), 1744 (4 C) (3)	CF09	10/29/2024 10:20	3
P001-CF10-01	MBH6N0	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1748 (4 C), 1752 (4 C) (3)	CF10	10/29/2024 10:30	4

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SPLP SVOC + Pest=SPLP SVOCs + Pesticides, TAL SVOCs+Pest+PCB=TAL SVOC+Pest+PCB, SPLP Metals + Hg=SPLP Metals + Hg&CN, TAL 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 ANALYSIS	WESTON SOLUTIONS	10/29/24 1440		1500 10-29-24	IR Gun #1 Temp 2.4 C Custody Seal intact Temp blank present

68HERH20D0011

SDG # MBH6M8

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-1029-0300-0041-03

DateShipped: 10/29/2024

CarrierName: Hand Deliver

AirbillNo: N/A

Case #: 51835

Cooler #: 1

Lab: Alliance Technical Group, LLC - CLP

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
P001-CF11-01	MBH6N1	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1756 (4 C), 1760 (4 C) (3)	CF11	10/29/2024 10:40	5
P001-CF06-01	MBH8M6	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1384 (4 C), 1628 (4 C) (3)	CF06	10/29/2024 10:05	6

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: SPLP SVOC + Pest=SPLP SVOCs + Pesticides, TAL SVOCs+Pest+PCB=TAL SVOC+Pest+PCB, SPLP Metals + Hg=SPLP Metals + Hg&CN, TAL 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 ANALYSIS	WESTON SOLUTIONS	10/29/24 1440		10-29-24 1500	IR Gun # 1 Temp 2.4 C custody seal intact Temp blank present

68HERH20D0011

SDG # MBH6M8

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-1029-0300-0041-04

DateShipped: 10/29/2024
CarrierName: Hand Deliver
AirbillNo: N/A

Case #: 51835
Cooler #: 1

Lab: Alliance Technical Group, LLC - CLP
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
P001-CF12-01	BH6N2	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1763 (4 C), 1767 (4 C) (3)	CF12	10/29/2024 10:45	
P001-CF13-01	BH6N3	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1771 (4 C), 1775 (4 C) (3)	CF13	10/29/2024 10:50	
P001-CF14-01	BH6N4	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1779 (4 C), 1783 (4 C) (3)	CF14	10/29/2024 10:55	
P001-CF15-01	BH6N5	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1787 (4 C), 1791 (4 C) (3)	CF15	10/29/2024 11:00	
P001-CF16-01	BH6N6	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1795 (4 C), 1799 (4 C) (4)	CF16	10/29/2024 11:05	
P001-CF16-02	BH6N7	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1803 (4 C), 1807 (4 C) (3)	CF16	10/29/2024 11:10	
P001-CF12-01	MBH6N2	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1764 (4 C), 1768 (4 C) (3)	CF12	10/29/2024 10:45	7
P001-CF13-01	MBH6N3	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1772 (4 C), 1776 (4 C) (3)	CF13	10/29/2024 10:50	8
P001-CF14-01	MBH6N4	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1780 (4 C), 1784 (4 C) (3)	CF14	10/29/2024 10:55	9
P001-CF15-01	MBH6N5	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1788 (4 C), 1792 (4 C) (3)	CF15	10/29/2024 11:00	10

Sample(s) to be used for Lab QC: P001-CF16-01 Tag 1795, P001-CF16-01 Tag 1799, P001-CF16-01 Tag 1796, P001-CF16-01 Tag 1800

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SPLP SVOC + Pest=SPLP SVOCs + Pesticides, TAL SVOCs+Pest+PCB=TAL SVOC+Pest+PCB, SPLP Metals + Hg=SPLP Metals + Hg&CN, TAL 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 ANALYS	WESTON SOLUTIONS	10/29/24 1440		1500 10-29-24	IR Gun # 1 Temp 2.8°C Custody Seal intact Temp blank present

68HERH20D0011

SDG # MBH6M8

USEPA CLP COC (LAB COPY)

DateShipped: 10/29/2024

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Case #: 51835

Cooler #: 1

No: 2-1029-0300-0041-04

Lab: Alliance Technical Group, LLC - CLP

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
P001-CF16-01	MBH6N6	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1796 (4 C), 1800 (4 C) (6)	CF16	10/29/2024 11:05	11
P001-CF16-02	MBH6N7	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1804 (4 C), 1808 (4 C) (3)	CF16	10/29/2024 11:10	12

Sample(s) to be used for Lab QC: P001-CF16-01 Tag 1800

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SPLP SVOC + Pest=SPLP SVOCs + Pesticides, TAL SVOCs+Pest+PCB=TAL SVOC+Pest+PCB, SPLP Metals + Hg=SPLP Metals + Hg&CN, TAL 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 ANALYSIS	WESTON SOLUTIONS	10/29/24 1440		1500 10-29-24	IR Gun #1 Temp 2.8c 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) Aggarwal Rina		Log-in Date 10/29/2024
Received By (Signature)		
Case Number 51835	SDG No. MBH6M8	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	Absent
5. Airbill No. and Shipping Container ID No.	HAND DELIVERED 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.4 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	10/29/2024
12.Time Received	15:00

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBH6M7	N/A	1728	P4624-01	Intact
2	MBH6M8	N/A	1736	P4624-02	Intact
3	MBH6M9	N/A	1744	P4624-03	Intact
4	MBH6N0	N/A	1752	P4624-04	Intact
5	MBH6N1	N/A	1760	P4624-05	Intact
6	MBH8M6	N/A	1628	P4624-06	Intact
7	N/A	N/A	N/A	N/A	N/A
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		Logbook No.	N/A
Date	10/29/24	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) Cassandra Leic		Log-in Date **10/29/2024**
Received By (Signature)		
Case Number 51835	SDG No. MBH6M8	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	Absent
5. Airbill No. and Shipping Container ID No.	HAND DELIVERED 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.8 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	10/29/2024
12.Time Received	15:00

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBH6N2	N/A	1768	P4624-07	Intact
2	MBH6N3	N/A	1776	P4624-08	Intact
3	MBH6N4	N/A	1784	P4624-09	Intact
4	MBH6N5	N/A	1792	P4624-10	Intact
5	MBH6N6	N/A	1800	P4624-11	Intact
6	MBH6N6D	N/A	1800	P4624-12	Intact
7	MBH6N6S	N/A	1800	P4624-13	Intact
8	MBH6N7	N/A	1808	P4624-14	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		Logbook No.	N/A
Date	10/29/24	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.	**51835**	SDG NO.	**MBH6M8**
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	5	✓	
3 . Sample Log-In Sheet (DC-1)	6	7	✓	
4 . CSF Inventory Sheet (DC-2)	8	10	✓	
5 . SDG Narrative	11	15	✓	
6 . Communication Logs	16	20	✓	
7 . Percent Solids Log	21	22	✓	
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	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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	23	34	✓	
18 . Instrument raw data by instrument in analysis order	35	541	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	542	679	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	680	681	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	682	688	✓	
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	689	700	✓	
27. Instrument raw data by instrument in analysis order	701	702	✓	
Other Data				
28. Standard and Reagent Preparation Logs	703	729	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	730	731	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	732	733	✓	
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	734	745	✓	
36. Instrument raw data by instrument in analysis order	746	748	✓	
Other Data				
37. Standard and Reagent Preparation Logs	749	778	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	779	780	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	781	782	✓	
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 0)	NA	NA	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	783	784	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	785	788	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by:
(CLP Lab) _____ (Signature) Nimisha Pandya, Document Control Officer (Print Name & Title) _____ (Date)

Audited by:
(EPA) _____ (Signature) _____ (Print Name & Title) _____ (Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MBH6M8
CASE # 51835
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4624

A. Number of Samples and Date of Receipt

12 Soil samples were delivered to the laboratory intact on 10/29/2024.

B. Parameters

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

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.4^{o}C, 2.8^{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: The attached COCs lists a 7-day TAT, but a 14-day TAT is scheduled for this Case.

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 Region 2, the laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples as scheduled (14-day TAT).

284 Sheffield Street
Mountainside, NJ 07092

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

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 MBH6M7 For Arsenic :

If C = 3.23 ppb
Vf = 500 ml
W = 1.15 g
S = 0.953(95.3/100)
DF = 1

$$\text{Concentration (mg/kg)} = 3.23 \times \frac{500}{1.15 \times 0.953} \times 1 / 1000$$

$$= 1.473607 \text{ mg/kg}$$

$$= 1.5 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for Hg Soil Sample:

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

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

284 Sheffield Street
Mountainside, NJ 07092

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

Example Calculation:

If C =0.1488 ppb
Vf = 100 mL
W = 0.58g
S = 0.827(82.7/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.1488 \frac{100}{0.58 \times 0.827} \times 1 / 1000$$

$$= 0.03102 \text{ mg/kg}$$

$$= 0.031 \text{ mg/kg (Reported Result with Signification)}$$

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:

If C = 6.2798 ppb
Vf = 50 ml
W = 1.03 g
S = 0.807(80.7/100)
DF = 1

284 Sheffield Street
Mountainside, NJ 07092

$$\text{Concentration (mg/kg)} = 6.2798 \times \frac{50}{1.03 \times 0.807} \times 1 / 1000$$

$$= 0.37775 \text{ mg/kg}$$

$$= 0.38 \text{ mg/kg (Reported Result with Signification)}$$

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. Matrix Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Internal standard 89Y(1) was out Side qc limit for sample MBH6M7 in Original so for this sample affected parameters are reported from 2X Dilution.

Internal standard 6Li was out Side qc limit for samples MBH6M8, MBH6M9, MBH6N0, MBH6N1, MBH8M6, MBH6N2 in Original so for these samples affected parameters are reported from 2X Dilution.

Internal standard 6Li was out Side qc limit for samples MBH6N6, MBH6N6D, MBH6N6S in Original & 2X Dilution So for these samples affected parameters are reported from Original.

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

284 Sheffield Street
Mountainside, NJ 07092

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

From: Bett, Daisy <Daisy.Bett@gdit.com>
Sent: Wednesday, October 30, 2024 11:51 AM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: Leung.christina@epa.gov; Brandon-Bazile, Kim; Feranda, Jennifer; Bauer, Heather E; Johnson, Matthew
Subject: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC | FINAL
Attachments: SKM_95824102915230.pdf

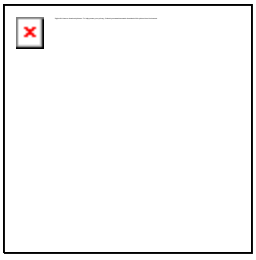
Good morning,

Issue: The attached COCs lists a 7-day TAT, but a 14-day TAT is scheduled for this Case.
Resolution: Per Region 2, the laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples as scheduled (14-day TAT).

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

Thank you,
Daisy Bett
Research Analyst Associate
GDIT Federal Civilian Division
EPA Region 2&3 CLP QSS Coordinator
Under contract to the EPA

T: 571.454.0186
daisy.bett@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com



GENERAL DYNAMICS
information technology

Leave alert: Nov 4th - 8th

From: Leung, Christina (she/her/hers) <Leung.Christina@epa.gov>
Sent: Wednesday, October 30, 2024 9:38 AM
To: Bett, Daisy <Daisy.Bett@gdit.com>
Cc: Feranda, Jennifer <Feranda.Jennifer@epa.gov>; Brandon-Bazile, Kim <Brandon-Bazile.Kim@epa.gov>
Subject: RE: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Hi Daisy,

Sampler is OK with 14 day TAT now, please proceed with analysis with 14 day TAT.
Apologies for the unnecessary back and forth.

Regards,

Christina Leung
Regional Sample Control Center (RSCC)
USEPA Region 2
LSASD-HWSB-HWSS
732-906-6995
Leung.christina@epa.gov
Updated CLPSS Address: https://clpss.epa.gov/uaa/login

From: Bett, Daisy <Daisy.Bett@gdit.com>
Sent: Wednesday, October 30, 2024 9:37 AM
To: Leung, Christina (she/her/hers) <Leung.Christina@epa.gov>
Cc: Feranda, Jennifer <Feranda.Jennifer@epa.gov>; Brandon-Bazile, Kim <Brandon-Bazile.Kim@epa.gov>
Subject: RE: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good morning Christina,

Would the Region please confirm whether the 7-day TAT change would need to be applied for all organic samples.
Please note that the SPLP analyses cannot be scheduled with a 7-day TAT.

Thank you,
Daisy Bett
Research Analyst Associate
GDIT Federal Civilian Division
EPA Region 2&3 CLP QSS Coordinator

Under contract to the EPA

T: 571.454.0186
daisy.bett@gdit.com
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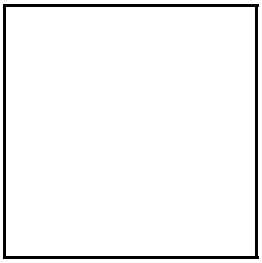

GENERAL DYNAMICS
information technology

Leave alert: Nov 4th - 8th

From: Leung, Christina (she/her/hers) <Leung.Christina@epa.gov>
Sent: Tuesday, October 29, 2024 6:57 PM
To: Bett, Daisy <Daisy.Bett@gdit.com>
Cc: Feranda, Jennifer <Feranda.Jennifer@epa.gov>; Brandon-Bazile, Kim <Brandon-Bazile.Kim@epa.gov>
Subject: RE: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Hi Daisy,

Per the sampler, would it be possible to change the TAT from 14 days to 7 days?

Regards,

Christina Leung
Regional Sample Control Center (RSCC)
USEPA Region 2
LSASD-HWSB-HWSS
732-906-6995
Leung.christina@epa.gov
Updated CLPSS Address: https://clpss.epa.gov/uaa/login

From: Bett, Daisy <Daisy.Bett@gdit.com>
Sent: Tuesday, October 29, 2024 5:30 PM
To: Leung, Christina (she/her/hers) <Leung.Christina@epa.gov>
Cc: Feranda, Jennifer <Feranda.Jennifer@epa.gov>; Brandon-Bazile, Kim <Brandon-Bazile.Kim@epa.gov>
Subject: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please see the below issue from ACE.

Issue: The attached COCs lists a 7-day TAT, but a 14-day TAT is scheduled for this Case.

Thank you,
Daisy Bett
Research Analyst Associate
GDIT Federal Civilian Division
EPA Region 2&3 CLP QSS Coordinator
Under contract to the EPA

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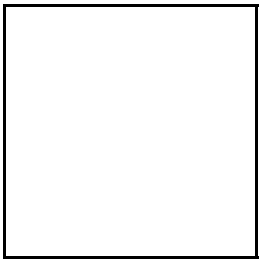

GENERAL DYNAMICS
information technology

Leave alert: Nov 4th - 8th

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Tuesday, October 29, 2024 4:11 PM
To: Bett, Daisy <Daisy.Bett@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Good afternoon,

As per ASR case 51835 is 14 days TAT but all COC received today for this case mentioned 7 days TAT there for lab would like to confirm they should proceed with analysis ?

Please see attachment for your reference.

Thanks & Regards,

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

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:10
In Date: 11/03/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/04/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC: LB133258

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
P4624-01	MBH6M7	1	1.18	8.51	9.69	9.29	95.3	
P4624-02	MBH6M8	2	1.18	8.56	9.74	9.36	95.6	
P4624-03	MBH6M9	3	1.17	8.66	9.83	9.39	94.9	
P4624-04	MBH6N0	4	1.17	8.43	9.6	9.26	96.0	
P4624-05	MBH6N1	5	1.17	8.38	9.55	9.12	94.9	
P4624-06	MBH8M6	6	1.16	8.57	9.73	9.32	95.2	
P4624-07	MBH6N2	7	1.19	8.59	9.78	9.33	94.8	
P4624-08	MBH6N3	8	1.18	8.79	9.97	9.32	92.6	
P4624-09	MBH6N4	9	1.14	8.45	9.59	9.24	95.9	
P4624-10	MBH6N5	10	1.15	8.82	9.97	9.35	93.0	
P4624-11	MBH6N6	11	1.14	8.83	9.97	9.4	93.5	
P4624-12	MBH6N6D	12	1.14	8.83	9.97	9.4	93.5	
P4624-13	MBH6N6S	13	1.14	8.83	9.97	9.4	93.5	
P4624-14	MBH6N7	14	1.13	8.75	9.88	9.4	94.5	

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

WORKLIST(Hardcopy Internal Chain)

VB 133258

WorkList Name : %1-p4624 **WorkList ID :** 185040 **Department :** Wet-Chemistry **Date :** 11-03-2024 07:47:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4624-01	MBH6M7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-02	MBH6M8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-03	MBH6M9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-04	MBH6N0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-05	MBH6N1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-06	MBH8M6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-07	MBH6N2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-08	MBH6N3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-09	MBH6N4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-10	MBH6N5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-11	MBH6N6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-12	MBH6N6D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-13	MBH6N6S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-14	MBH6N7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO

Date/Time 11/03/24 12:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 11/03/24 13:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]