

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51495 MA No.: 3221.2 SDG No.: MYD5N0
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method			
		ICP-AES	ICP-MS	Mercury	Cyanide
MYD5K5	P2824-01		X		
MYD5K5D	P2824-02		X		
MYD5K5S	P2824-03		X		
MYD5N0	P2824-04		X		
MYD5N1	P2824-05		X		
MYD5N2	P2824-06		X		
MYD5N3	P2824-07		X		
MYD5N4	P2824-08		X		
MYD5N5	P2824-09		X		
MYD5N6	P2824-10		X		
MYD5N7	P2824-11		X		
MYD5N8	P2824-12		X		
MYD5N9	P2824-13		X		
MYD5P0	P2824-14		X		
MYD5P1	P2824-15		X		
MYD5P2	P2824-16		X		
MYD5P3	P2824-17		X		
MYD5P4	P2824-18		X		
MYD5P5	P2824-19		X		
MYD5P6	P2824-20		X		
MYD5P7	P2824-21		X		
MYD5P8	P2824-22		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: 6/7/2024

Carrier Name: FedEx

Airbill No: 7767 6247 8710

CHAIN OF CUSTODY RECORD

Case #: 51495

Cooler #: 51495-066

No: 9-060724-134228-0066


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
90379-D-0001-01	MYD5J7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3851 (None) (1)	90379-D-0001	06/06/2024 08:16	
90379-A-0008-01	MYD5J8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3852 (None) (1)	90379-A-0008	06/06/2024 08:17	
90379-C-0007-03	MYD5J9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3853 (None) (1)	90379-C-0007	06/06/2024 08:15	
90379-A-0009-01	MYD5K0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3854 (None) (1)	90379-A-0009	06/06/2024 08:15	
90379-D-0007-01	MYD5K1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3855 (None) (1)	90379-D-0007	06/06/2024 08:14	
90379-C-0003-01	MYD5K2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3856 (None) (1)	90379-C-0003	06/06/2024 08:11	
90379-A-0001-03	MYD5K3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3857 (None) (1)	90379-A-0001	06/06/2024 08:10	
90379-D-0004-01	MYD5K4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3858 (None) (1)	90379-D-0004	06/06/2024 08:21	
90379-D-0010-03	MYD5K5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3859 (None) (1)	90379-D-0010	06/06/2024 08:08	
90379-A-0005-01	MYD5K6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3860 (None) (1)	90379-A-0005	06/06/2024 08:21	
90379-A-0011-01	MYD5K7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3861 (None) (1)	90379-A-0011	06/06/2024 08:08	
90379-A-0004-01	MYD5K8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3862 (None) (1)	90379-A-0004	06/06/2024 08:06	
90379-D-0005-01	MYD5K9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3863 (None) (1)	90379-D-0005	06/06/2024 08:06	
90379-A-0002-01	MYD5L0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3864 (None) (1)	90379-A-0002	06/06/2024 08:05	

Shipments for Case Complete? N	
Sample(s) to be used for Lab QC: 90379-C-0007-03 Tag 9-3853, 90379-A-0001-03 Tag 9-3857, 90379-D-0010-03 Tag 9-3859 - Special Instructions: ICP-AES 11+ Metals: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES 11=ICP-AES 11+Metals	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SHIP TO Lab	Caroline Cuyamero Weston	6/7/2024 15:00		6-10-24 0854	20-8°C TOL 600 #1
					Custody sealed intact
					No Temp. dev.

USEPA CLP COC (LAB COPY)

Date Shipped: 6/7/2024

Carrier Name: FedEx

Airbill No: 7767 6242 3713

CHAIN OF CUSTODY RECORD

Case #: 51495

Cooler #: 51495-067

68HERH20D0011

SDG # MYD5K5 & MYD5N0

No: 9-060724-134231-0067

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
90379-B-0010-01	MYD5N0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3884 (None) (1)	90379-B-0010	06/06/2024 08:30	2
90379-B-0005-01	MYD5N1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3885 (None) (1)	90379-B-0005	06/06/2024 08:28	3
90379-C-0002-01	MYD5N2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3886 (None) (1)	90379-C-0002	06/06/2024 08:28	4
90379-C-0010-01	MYD5N3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3887 (None) (1)	90379-C-0010	06/06/2024 08:26	5
90379-D-0009-01	MYD5N4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3888 (None) (1)	90379-D-0009	06/06/2024 08:25	6
90379-A-0007-01	MYD5N5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3889 (None) (1)	90379-A-0007	06/06/2024 08:26	7
90379-C-0006-01	MYD5N6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3890 (None) (1)	90379-C-0006	06/06/2024 08:25	8
90379-C-0001-01	MYD5N7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3891 (None) (1)	90379-C-0001	06/06/2024 08:23	9
90379-D-0008-01	MYD5N8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3892 (None) (1)	90379-D-0008	06/06/2024 08:23	10
90379-B-0009-01	MYD5N9	Soil/ ERT	Grab	ICP-AES 11(21)	9-3893 (None) (1)	90379-B-0009	06/06/2024 08:33	11
196-A-0003-01	MYD5P0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3894 (None) (1)	196-A-0003	06/06/2024 13:29	12
196-A-0002-01	MYD5P1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3895 (None) (1)	196-A-0002	06/06/2024 13:17	13
196-A-0004-01	MYD5P2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3896 (None) (1)	196-A-0004	06/06/2024 13:23	14
196-A-0005-01	MYD5P3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3897 (None) (1)	196-A-0005	06/06/2024 13:20	15
196-A-0001-01	MYD5P4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3898 (None) (1)	196-A-0001	06/06/2024 13:33	16
196-A-0006-01	MYD5P5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3899 (None) (1)	196-A-0006	06/06/2024 13:14	17
1915-F-0004-01	MYD5P6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3900 (None) (1)	1915-F-0004	06/06/2024 09:11	18
1915-E-0001-01	MYD5P7	Soil/ ERT	Grab	ICP-AES 11(21)	9-3901 (None) (1)	1915-E-0001	06/06/2024 09:11	19
1915-A-0001-01	MYD5P8	Soil/ ERT	Grab	ICP-AES 11(21)	9-3902 (None) (1)	1915-A-0001	06/06/2024 09:09	20

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Special Instructions: ICP-AES 11+ Metals: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn

Analysis Key: ICP-AES 11=ICP-AES 11+Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SHIP TO Lab	Cameron Wayne Western	6/7/2024 5:00	CD	8:59 6/10/24	24-0001 21.1
					Custody Seal Intact
					No Long Blank

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC	Page <u>1</u> of <u>2</u>
Received By (Print Name) <u>GONSE MCANDREW</u>	Log-in Date 6/10/2024
Received By (Signature) <u>[Signature]</u>	
Case Number 51495	SDG No. MYD5K5 & MYD5N0 MA No. 3208.0 & 3221.2

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>776762478710</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	<u>20.8</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>06/10/2024</u>
12. Time Received	<u>08:54</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MYD5K5	N/A	9-3859	P2824-01	Intact
2	MYD5K5D	N/A	9-3859	P2824-02	Intact
3	MYD5K5S	N/A	9-3859	P2824-03	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
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 <u>[Signature]</u>	Logbook No. N/A
Date <u>6/11/24</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>2</u>
Received By (Print Name) <u>George N. Esquivel</u>		Log-in Date 6/10/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51495	SDG No. MYD5K5 & MYD5N0	MA No. 3208.0 & 3221.2

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>776762423713</u> <u>2</u>
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	<u>21.1</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>06/10/2024</u>
12. Time Received	<u>08:54</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MYD5N0	N/A	9-3884	P2824-04	Intact
2	MYD5N1	N/A	9-3885	P2824-05	Intact
3	MYD5N2	N/A	9-3886	P2824-06	Intact
4	MYD5N3	N/A	9-3887	P2824-07	Intact
5	MYD5N4	N/A	9-3888	P2824-08	Intact
6	MYD5N5	N/A	9-3889	P2824-09	Intact
7	MYD5N6	N/A	9-3890	P2824-10	Intact
8	MYD5N7	N/A	9-3891	P2824-11	Intact
9	MYD5N8	N/A	9-3892	P2824-12	Intact
10	MYD5N9	N/A	9-3893	P2824-13	Intact
11	MYD5P0	N/A	9-3894	P2824-14	Intact
12	MYD5P1	N/A	9-3895	P2824-15	Intact
13	MYD5P2	N/A	9-3896	P2824-16	Intact
14	MYD5P3	N/A	9-3897	P2824-17	Intact
15	MYD5P4	N/A	9-3898	P2824-18	Intact
16	MYD5P5	N/A	9-3899	P2824-19	Intact
17	MYD5P6	N/A	9-3900	P2824-20	Intact
18	MYD5P7	N/A	9-3901	P2824-21	Intact
19	MYD5P8	N/A	9-3902	P2824-22	Intact
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>6/11/24</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.	51495	SDG NO.	MYD5N0
MA NO.	3208.0,3221.2	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	3	✓	
3. Sample Log-In Sheet (DC-1)	4	5	✓	
4. CSF Inventory Sheet (DC-2)	6	8	✓	
5. SDG Narrative	9	13	✓	
6. Communication Logs	14	17	✓	
7. Percent Solids Log	18	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	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	21	40	✓	
18. Instrument raw data by instrument in analysis order	41	1049	✓	
Other Data				
19. Standard and Reagent Preparation Logs	1050	1186	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1187	1188	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1189	1199	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOS:		CHECK	
	FROM	TO	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	NA	NA	✓	
27 . Instrument raw data by instrument in analysis order	NA	NA	✓	

Other Data

28 . Standard and Reagent Preparation Logs	NA	NA	✓	
29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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	NA	NA	✓	
36 . Instrument raw data by instrument in analysis order	NA	NA	✓	

Other Data

37 . Standard and Reagent Preparation Logs	NA	NA	✓	
38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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 2)

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)Audited by:
(EPA)

Nimisha Pandya, Document Control Officer

(Signature)

(Print Name & Title)

(Date)

(Signature)

(Print Name & Title)

(Date)

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
1200	1201	✓	
NA	NA	✓	
1202	1204	✓	
NA	NA	✓	
1205	1206	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MYD5N0

CASE # 51495

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # P2824

MODIFIED ANALYSIS#3221.2

A. Number of Samples and Date of Receipt

20 Soil sample were delivered to the laboratory intact on 06/10/2024.

B. Parameters

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

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 20.8°C, 21.1°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 laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.

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.



**284 Sheffield Street
Mountainside, NJ 07092**

Resolution 2: Per Region 9, Case 51495 is for metals. There are no rinsates in those cooler so they don't require ice. The laboratory should 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.

G. Calculation:

Calculation for ICP-MS 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 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 MYD5K5 For Antimony:

If C = 1.80 ppb

Vf = 500 ml

W = 1.15 g

S = 0.986(98.6/100)

DF = 1

$$\text{Concentration (mg/kg)} = 1.80 \times \frac{500}{1.15 \times 0.986} \times 1 / 1000$$

$$= 0.7937 \text{ mg/kg}$$

$$= 0.79 \text{ mg/kg (Reported Result with Signification)}$$

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 (MYD5K5SRE) did meet requirements except for Selenium. Spike sample (MYD5K5S) did meet



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Mountainside, NJ 07092**

requirements except for Copper. Duplicate sample did meet requirements. 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
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

Date: 09/04/2024	MA: 3221.1	Title: ICP-MS Re-Digestion and Re-Analysis of Soils with Additional Laboratory QC
Method Source: SFAM01.1	Method: ICP-MS	
Matrix: Soil/Sediment		
Summary of Modification		
<p>The purpose of this modified analysis is to re-prepare samples by EPA Draft Method 3050C (see below) with additional modified LCS and Matrix Spikes and analyze for the scheduled target analytes by ICP-MS. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.</p>		
I. Analyte Modifications		Not applicable <input checked="checked" type="checkbox"/>
II. Calibration and QC Requirements		Not applicable <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> • Use the Method Detection Limits (MDLs) determined for routine soil analyses (i.e., Method 200.8) to report the results for these analyses. The Laboratory is NOT required to perform an MDL study for Draft Method 3050C. • Prepare and analyze an additional Laboratory Control Sample (LCS) spiked at the CRQL. Percent Recovery limits do NOT apply to this LCS and no corrective actions are required. • Prepare a Matrix Spike spiked at three times the levels specified in the SOW. • Prepare and analyze an additional Matrix Spike sample spiked at five times the levels specified for this Modified Analysis (i.e., 15x the levels specified in the SOW). • Post-Digestion Spike requirements apply to the 5x Matrix Spike only. • Post-Digestion Spike corrective actions apply to Sb. 		
III. Preparation and Method Modifications		Not applicable <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> • Prepare and analyze the sample by EPA Draft Method 3050C as follows: <ul style="list-style-type: none"> ○ Mix sample thoroughly and transfer 1.00 – 1.50 g to a digestion vessel. ○ Add 10 mL 1:1 HNO₃ and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10 -15 minutes. ○ Add 5 mL concentrated HNO₃ and reflux for 30 minutes at 95°C (±3°C), repeat until digestion complete. ○ Concentrate sample to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C). ○ Cool sample, add 2mL water and 3 mL 30% H₂O₂. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H₂O₂ until effervescence is minimal. ○ Dilute to 100 mL with water, centrifuge or filter as necessary prior to analysis. • The same sample extracts can be used for ICP-AES analysis. Separate Matrix Spikes and LCS will need to be prepared for both ICP-AES and ICP-MS analyses. • Analyze the samples starting at an initial 5x dilution. Subsequently, dilute samples as necessary to bring the analyte concentrations within the calibration range of the instrument per the SOW. • Method Blanks, both LCSs, and all instrument QC are to be analyzed undiluted. 		

IV. Special Reporting Requirements

Not applicable

☐

The Laboratory shall:

- Ensure the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the resolution or corrective actions taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses and/or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analyses, including a copy of the approved modification form with the SDG Narrative.
- The Initial analysis data are reported with a dilution factor of 1.0 and a final volume of 500 mL, per the SOW.
- Report the additional LCS as "LCSD" in the raw data and in the EDD with QCType "Laboratory_Control_Sample_Duplicate".
- Report the additional Matrix Spike with an "SRE" suffix in the raw data and EDD.
- Report any Post-Digestion Spike of the additional 5x Matrix Spike with an "ARE" suffix.

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Monday, June 10, 2024 3:37 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: R9RSCC (R9RSCC@epa.gov); carmon.jamie@epa.gov; Spiegel, Michael (he/him/his)
Subject: Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature | FINAL

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

Please advise on the issue below.

Issue: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.
Resolution: Per Region 9, Case 51495 is for metals. There are no rinsates in those cooler so they don't require ice. The laboratory should note the issue in the SDG narrative and proceed with the analysis of the samples.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thanks,
Miles Hairston
Associate Environmental Analyst
Under contract to EPA
QSS Coordinator – EPA Regions 1, 8, and 9

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A

GENERAL DYNAMICS
Automation Technology

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From: R9RSCC <R9RSCC@epa.gov>
Sent: Monday, June 10, 2024 3:23 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: R9RSCC <R9RSCC@epa.gov>
Subject: RE: Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature

This Message Is From an External Sender

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Hi Miles,

Case 51495 is for metals. The client said there are no rinsates in those cooler so they don't require ice. Please have the lab proceed with analysis.

Thanks

-Jamie

Jamie Carmon (she/her)

Region 9

RSCC (Regional Sample Control Coordinator)

Phone: 510-412-2389

Email: R9RSCC@epa.gov

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>

Sent: Monday, June 10, 2024 11:35 AM

To: R9RSCC <R9RSCC@epa.gov>; Carmon, Jamie (she/her/hers) <Carmon.Jamie@epa.gov>; Spiegel, Michael (he/him/his) <Spiegel.Michael@epa.gov>

Subject: Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature

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Good afternoon,

Please advise on the issue below.

Issue: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.

Thanks,

Miles Hairston

Associate Environmental Analyst

Under contract to EPA

QSS Coordinator – EPA Regions 1, 8, and 9

Work Phone: +1 571-454-0346

Miles.Hairston@gdit.com

15036 Conference Center Drive

Chantilly, VA 20151

www.gdit.com

Leave alert: N/A

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From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, June 10, 2024 1:54 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: RE: Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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

Good afternoon,

the temperature of the cooler upon arrival is 24.2,23.2,23.8,24.1,26.1 without ice .

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    

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Monday, June 10, 2024 1:46 PM
To: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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Good afternoon,

What was the temperature of the cooler upon arrival?

Thanks,
Miles Hairston
Associate Environmental Analyst
Under contract to EPA
QSS Coordinator – EPA Regions 1, 8, and 9

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A



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From: Deepak Parmar <Deepak.Parmar@alliancetg.com>

Sent: Monday, June 10, 2024 1:06 PM

To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>

Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>

Subject: Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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

Good morning ,

Sample received for Case 51495 without ice ,there for lab like to confirm that can lab proceed with the analysis of the sample ?

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: 6/14/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:15
In Date: 06/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:35
Out Date: 06/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB131218

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
P2824-01	MYD5K5	1	1.18	8.47	9.65	9.53	98.6	
P2824-02	MYD5K5D	2	1.18	8.47	9.65	9.53	98.6	
P2824-03	MYD5K5S	3	1.18	8.47	9.65	9.53	98.6	
P2824-04	MYD5N0	4	1.17	8.49	9.66	9.51	98.2	
P2824-05	MYD5N1	5	1.18	8.38	9.56	9.47	98.9	
P2824-06	MYD5N2	6	1.12	8.54	9.66	9.56	98.8	
P2824-07	MYD5N3	7	1.18	8.50	9.68	9.55	98.5	
P2824-08	MYD5N4	8	1.15	8.35	9.5	9.38	98.6	
P2824-09	MYD5N5	9	1.18	8.70	9.88	9.74	98.4	
P2824-10	MYD5N6	10	1.18	8.61	9.79	9.66	98.5	
P2824-11	MYD5N7	11	1.14	8.44	9.58	9.52	99.3	
P2824-12	MYD5N8	12	1.16	8.47	9.63	9.54	98.9	
P2824-13	MYD5N9	13	1.18	8.57	9.75	9.67	99.1	
P2824-14	MYD5P0	14	1.15	8.35	9.5	8.94	93.3	
P2824-15	MYD5P1	15	1.16	8.72	9.88	9.47	95.3	
P2824-16	MYD5P2	16	1.11	8.57	9.68	9.36	96.3	
P2824-17	MYD5P3	17	1.13	8.72	9.85	9.54	96.4	
P2824-18	MYD5P4	18	1.15	8.44	9.59	9.34	97.0	
P2824-19	MYD5P5	19	1.13	8.39	9.52	9.36	98.1	
P2824-20	MYD5P6	20	1.12	8.32	9.44	9.14	96.4	
P2824-21	MYD5P7	21	1.14	8.64	9.78	9.6	97.9	
P2824-22	MYD5P8	22	1.16	8.41	9.57	9.43	98.3	

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

WORKLIST(Hardcopy Internal Chain)

131218

WorkList Name : %1-p2824 WorkList ID : 181043 Department : Wet-Chemistry Date : 06-13-2024 10:27:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P2824-01	MYD5K5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-02	MYD5K5D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-03	MYD5K5S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-04	MYD5N0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-05	MYD5N1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-06	MYD5N2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-07	MYD5N3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-08	MYD5N4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-09	MYD5N5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-10	MYD5N6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-11	MYD5N7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-12	MYD5N8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-13	MYD5N9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-14	MYD5P0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-15	MYD5P1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-16	MYD5P2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-17	MYD5P3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-18	MYD5P4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-19	MYD5P5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-20	MYD5P6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2824-21	MYD5P7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO

Date/Time: 06-13-24 12:45
 Raw Sample Received by: J.C. Smith
 Raw Sample Relinquished by: J.C. Smith

WORKLIST(Hardcopy Internal Chain)

W 131218

WorkList Name : %1-p2824 WorkList ID : 181043 Department : Wet-Chemistry Date : 06-13-2024 10:27:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P2824-22	MYD5P8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO

Date/Time 06-13-24 12:45
Raw Sample Received by: JOC (cc) /
Raw Sample Relinquished by: JOC (cc) /

Date/Time 06-13-24 13:20
Raw Sample Received by: JOC / sm /
Raw Sample Relinquished by: JOC / cc /