SDG COVER PAGE

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

Lab Code: ACE Case No.: 51955 MA No.: 3152.0 SDG No.: YE8F8

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
YE8F5	Q1135-01	X	X	X	
YE8F7	Q1135-02	X	X	X	
YE8F7D	Q1135-03	X	X	X	
YE8F7S	Q1135-04	X	X	X	
YE8F8	Q1135-05	X	X	X	
YE8F9	Q1135-06	X	X	X	
YE8H9	Q1135-07	X	X	X	
YE8J0	Q1135-08	X	X	X	
YE8H7	Q1135-09		X	X	
YE8J1	Q1135-10	X	X	X	
YE8E3	Q1135-11	X	X	X	
YE8E4	Q1135-12	X	X	X	
YE8E5	Q1135-13	X	X	X	
YE8E6	Q1135-14	X	X	X	
YE8E7	Q1135-15	X	X	X	
YE8E8	Q1135-16	X	X	X	
YE8D2	Q1135-17	X	X	X	
YE8D4	Q1135-18	X	X	X	
YE8C3	Q1135-19	X	X	X	
YE8D0	Q1135-21	X	X	X	
YE8D5	Q1135-22	X	X	X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

68HERH20D0011 SDG # YE8F8

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 9-011625-150913-0008

DateShipped: 1/17/2025
CarrierName: FedEx
AirbillNo: 7714 8858 7235

Case #: 51955
MA 3152.0

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-28-SO-17.5-18.5	YE8F5	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	332 (Wet Ice), 336 (Wet Ice) (3)	28	01/15/2025 12:30	/ 1
MW-28-SO-3-4	YE8F7	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	346 (Wet Ice), 350 (Wet Ice) (3)	28	01/15/2025 09:05	/ 2 QC
MW-28-SO-8-10	YE8F8	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	353 (Wet Ice), 357 (Wet Ice) (3)	28	01/15/2025 09:10	/ 3
MW-928-SO-8-10	YE8F9	Soil/ EAEST	Grab	ICP-AES/MS(21)	360 (Wet Ice) (1)	928	01/15/2025 09:10	/ 4

Sample(s) to be used for Lab QC: MW-28-SO-3-4 Tag 346, MW-28-SO-3-4 Tag 350

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Allison Hansa 01/17/25 1600		[signature]	1/18/25 10:54	2-3°
					IR gun #1
					Temp blank present
					Cust seal intact

68HERH20D0011 SDG # YE8F8

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 9-011725-082926-0010

DateShipped: 1/17/2025
CarrierName: FedEx
AirbillNo: 7714 8894 1532

Case #: 51955
MA 3152.0

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-27-SO-2-3	YE8H9	Soil/	Grab	ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21)	448 (Wet Ice), 449 (Wet Ice), 450 (Wet Ice) (4)	27	01/16/2025 10:20	6
MW-27-SO-5.5-6.5	YE8J0	Soil/	Grab	ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21)	452 (Wet Ice), 453 (Wet Ice), 454 (Wet Ice) (4)	27	01/16/2025 10:25	6
MW-27-SO-18.5-19.5	YE8J1	Soil/	Grab	SPLP ICP-AES(21)	457 (Wet Ice) (2)	27	01/16/2025 10:40	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SVOA=Semivolatiles, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Muyy EA	01/17/25 1200	[signature]	1/18/25 10:54	2.1
					IR Gun #1
					[signature]
					[signature]

68HERH20D0011 SDG # YE8F8

USEPA CLP COC (LAB COPY)
DateShipped: 1/17/2025
CarrierName: FedEx
AirbillNo: 7714 8892 1210

CHAIN OF CUSTODY RECORD

Case #: 51955
MA 3152.0

No: 9-011725-083612-0011
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
EB-20250117	YE8H7	Water/ EAEST	Grab	ICP-AES(21), TVOA(21), SVOA(21)	444 (HNO3 pH<2, Wet Ice), 445 (Wet Ice, HCl pH <2), 446 (Wet Ice) (8)	EB	01/17/2025 09:00	✓ [illegible] pH<3 [illegible] 7
TB-20250117	YE8H8	Water/ EAEST	Grab	VOA(21)	447 (Wet Ice, HCl pH <2) (4)	TB	01/17/2025 09:00	
MW-27-SO-18.5-19.5	YE8J1	Soil/	Grab	ICP-AES/MS(21), SVOA(21)	455 (Wet Ice), 456 (Wet Ice) (2)	27	01/16/2025 10:40	✓ 8

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

Analysis Key: ICP-AES=ICP-AES Metals + Hg, pH, TVOA=Trace Volatiles, SVOA=Semivolatiles, VOA=Volatiles, ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	[signature] EA	01/17/25 1200	[signature]	1/18/25 10:54	1.2°, Intact, [illegible], Custody Seals Intact

68HERH20D0011

SDG # YE8F8

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 9-011825-122406-0013

DateShipped: 1/21/2025
CarrierName: FedEx
AirbillNo: 7715 3303 8663

Case #: 51955
MA 3152.0

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-26-SO-1-2	YE8E3	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	248 (Wet Ice), 252 (Wet Ice) (3)	26	01/17/2025 10:45	✓ 1
MW-26-SO-3-4	YE8E4	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	255 (Wet Ice), 259 (Wet Ice) (3)	26	01/17/2025 10:50	✓ 2
MW-26-SO-5-6	YE8E5	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	262 (Wet Ice), 266 (Wet Ice) (3)	26	01/17/2025 10:55	✓ 3
MW-26-SO-20-22	YE8E6	Soil/ EAEST	Grab	ICP-AES/MS(21)	269 (Wet Ice) (1)	26	01/17/2025 11:10	✓ 4

Special Instructions:

Shipment for Case Complete? N ✓

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Allison Hulsa Hulsa EA	01/21/25 1600		10:15 1-22-25	IR Gun #1 1.9°C Custody Seal Intact Temp Blank present

68HERH20D0011

SDG # YE8F8

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 9-011825-123309-0014

DateShipped: 1/21/2025

CarrierName: FedEx

AirbillNo: 7715 3298 1764

Case #: 51955

MA 3152.0

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-26-SO-20-22	YE8E6	Soil/ EAEST	Grab	SPLP ICP-AES(21)	273 (Wet Ice) (2)	26	01/17/2025 11:10	
MW-26-SO-39-40	YE8E7	Soil/ EAEST	Grab	ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21)	276 (Wet Ice), 277 (Wet Ice), 280 (Wet Ice) (4)	26	01/17/2025 15:55	✓ 5
MW-26-SO-51-52	YE8E8	Soil/ EAEST	Grab	ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21)	283 (Wet Ice), 284 (Wet Ice), 287 (Wet Ice) (4)	26	01/17/2025 16:00	✓ 6

Special Instructions:

Shipment for Case Complete? N ✓

Samples Transferred From Chain of Custody #

Analysis Key: SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH, ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SVOA=Semivolatiles

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Allison Hurisa EA	01/21/25 1600		10:15 1.22.25	IR Gun # (2.0°
					Custody Seal Intact
					Trip Blank present

68HERH20D0011

SDG # YE8F8

USEPA CLP COC (LAB COPY)

DateShipped: 1/21/2025

CarrierName: FedEx

AirbillNo: 7715 3303 2404

CHAIN OF CUSTODY RECORD

Case #: 51955

MA 3152.0

No: 9-011925-103859-0017

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-24-SO-38-40	YE8D1	Soil/ EAEST	Grab	SPLP ICP-AES(21)	168 (Wet Ice) (2)	24	01/19/2025 09:15	
MW-24-SO-58-60	YE8D2	Soil/ EAEST	Grab	ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21)	171 (Wet Ice), 172 (Wet Ice), 175 (Wet Ice) (4)	24	01/19/2025 09:50	
MW-924-SO-5-7	YE8D4	Soil/ EAEST	Grab	ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21)	185 (Wet Ice), 186 (Wet Ice), 189 (Wet Ice) (4)	924	01/18/2025 16:30	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH, ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SVOA=Semivolatiles

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Allison Hugya EA	01/21/25 1600		10:15 1-22-25	ZR Cont #1 1.8°
					Custody Seal Intact
					Temp Blank present

68HERH20D0011

SDG # YE8F8

USEPA CLP COC (LAB COPY)

DateShipped: 1/21/2025

CarrierName: FedEx

AirbillNo: 7715 3303 4885

CHAIN OF CUSTODY RECORD

Case #: 51955

MA 3152.0

No: 9-011925-103929-0018

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-924-SO-38-40	YE8C3	Soil/ EAEST	Grab	ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21)	108 (Wet Ice), 109 (Wet Ice), 112 (Wet Ice) (4)	924	01/19/2025 09:15	✓ 9
MW-24-SO-5-7	YE8C9	Soil/ EAEST	Grab	ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21)	150 (Wet Ice), 151 (Wet Ice), 154 (Wet Ice) (5)	24	01/18/2025 16:30	✓ 10
MW-24-SO-18-20	YE8D0	Soil/ EAEST	Grab	ICP-AES/MS(21)	157 (Wet Ice) (1)	24	01/18/2025 16:40	✓ 11

Sample(s) to be used for Lab QC: MW-24-SO-5-7 Tag 150, MW-24-SO-5-7 Tag 151, MW-24-SO-5-7 Tag 154

Shipment for Case Complete? N ✓

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SVOA=Semivolatiles, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Allison Thurber EA	01/21/25 1600	R. Melendez	10:15 1.22.25	IR gun # 2.2
					Temp Blank present
					Custody Seal intact

68HERH20D0011

SDG # YE8F8

USEPA CLP COC (LAB COPY)

DateShipped: 1/21/2025

CarrierName: FedEx

AirbillNo: 7715 3307 8108

CHAIN OF CUSTODY RECORD

Case #: 51955

MA 3152.0

No: 9-011925-144654-0020

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-24-SO-69-70	YE8D5	Soil/ EAEST	Grab	ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21)	192 (Wet Ice), 193 (Wet Ice), 196 (Wet Ice) (4)	24	01/19/2025 14:20	✓ 12

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SVOA=Semivolatiles, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Allison Hwsa EA	01/21/25 1000	R. Melendez	10:15 1-22-25	IR gun #1 2.5°
					Temp Blank present
					Custody seal intact

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 8
Received By (Print Name) Cassandra Reña		Log-in Date 1/18/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8F8	MA No. 3152.0

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.	771488587235 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	01/18/2025
12.Time Received	10:54

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	YE8F5	N/A	332	Q1135-01	Intact
2	YE8F7	N/A	346	Q1135-02	Intact
3	YE8F7D	N/A	346	Q1135-03	Intact
4	YE8F7S	N/A	346	Q1135-04	Intact
5	YE8F8	N/A	353	Q1135-05	Intact
6	YE8F9	N/A	360	Q1135-06	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	1/27/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 8
Received By (Print Name) Cassandra Rena		Log-in Date 1/18/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8F8	MA No. 3152.0

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.	771488941532 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	01/18/2025
12.Time Received	10:54

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	YE8H9	N/A	448	Q1135-07	Intact
2	YE8J0	N/A	452	Q1135-08	Intact
3	N/A	N/A	N/A	N/A	N/A
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	Logbook No. N/A
Date 1/27/25	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 3 of 8
Received By (Print Name) Cassandra Rena		Log-in Date 1/18/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8F8	MA No. 3152.0

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.	771488921210 3
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.2 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	01/18/2025
12.Time Received	10:54

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	YE8H7	1.3	444	Q1135-09	Intact
2	YE8J1	N/A	455	Q1135-10	Intact
3	N/A	N/A	N/A	N/A	N/A
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		Logbook No.	N/A
Date	1/27/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 4 of 8
Received By (Print Name) Cassandra Reña		Log-in Date 1/22/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8F8	MA No. 3152.0

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.	771533038663 4
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.9 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	01/22/2025
12.Time Received	10:15

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	YE8E3	N/A	248	Q1135-11	Intact
2	YE8E4	N/A	255	Q1135-12	Intact
3	YE8E5	N/A	262	Q1135-13	Intact
4	YE8E6	N/A	269	Q1135-14	Intact
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		Logbook No.	N/A
Date	1/27/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 5 of 8
Received By (Print Name) Cassanova Rena		Log-in Date 1/22/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8F8	MA No. 3152.0

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.	771532981764 5
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	01/22/2025
12.Time Received	10:15

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	YE8E7	N/A	276	Q1135-15	Intact
2	YE8E8	N/A	283	Q1135-16	Intact
3	N/A	N/A	N/A	N/A	N/A
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		Logbook No.	N/A
Date	1/27/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 6 of 8
Received By (Print Name) Cassanova Reña		Log-in Date 1/22/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8F8	MA No. 3152.0

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.	771533032404 6
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.8 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	01/22/2025
12.Time Received	10:15

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	YE8D2	N/A	171	Q1135-17	Intact
2	YE8D4	N/A	185	Q1135-18	Intact
3	N/A	N/A	N/A	N/A	N/A
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		Logbook No.	N/A
Date	1/27/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 7 of 9
Received By (Print Name) Cassandra Rene		Log-in Date 1/22/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8F8	MA No. 3152.0

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.	771533034885 7
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.2 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	01/22/2025
12.Time Received	10:15

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	YE8C3	N/A	108	Q1135-19	Intact
2	YE8D0	N/A	157	Q1135-21	Intact
3	N/A	N/A	N/A	N/A	N/A
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		Logbook No.	N/A
Date	1/27/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 8 of 9
Received By (Print Name) Gagandeep Kaur		Log-in Date **1/22/2025**
Received By (Signature)		
Case Number 51955	SDG No. YE8F8	MA No. 3152.0

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.	771533078108 8
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.5 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	01/22/2025
12.Time Received	10:15

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	YE8D5	N/A	192	Q1135-22	Intact
2	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A
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		Logbook No.	N/A
Date	1/27/25	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.	**51955**	SDG NO.	**YE8F8**
MA NO.	**3152.0**	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	9	✓	
3 . Sample Log-In Sheet (DC-1)	10	17	✓	
4 . CSF Inventory Sheet (DC-2)	18	20	✓	
5 . SDG Narrative	21	28	✓	
6 . Communication Logs	29	32	✓	
7 . Percent Solids Log	33	34	✓	
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	35	52	✓	
9 . Instrument raw data by instrument in analysis order	53	408	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	409	544	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	545	546	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	547	555	✓	
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	556	574	✓	
18 . Instrument raw data by instrument in analysis order	575	1942	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	1943	2121	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	2122	2125	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2126	2138	✓	
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	2139	2157	✓	
27. Instrument raw data by instrument in analysis order	2158	2162	✓	
Other Data				
28. Standard and Reagent Preparation Logs	2163	2196	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	2197	2204	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2205	2210	✓	
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	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 8)	2211	2218	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	2219	2222	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	2223	2228	✓	
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 # YE8F8
CASE # 51955
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1135
MODIFIED ANALYSIS # 3152.0

A. Number of Samples and Date of Receipt

18 Soil and 01 Water samples were delivered to the laboratory intact on 01/18/2025, 01/22/2025

B. Parameters

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

Test requested for Metals CLP MS = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Vanadium, Zinc.

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

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.3^{o}C, 2.1^{o}C, 1.2^{o}C, 1.9^{o}C, 2.0^{o}C, 1.8^{o}C, 2.2^{o}C,2.5^{o}C

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

Issue : The COC indicates that water sample YE8H7 should be analyzed by ICP-AES, but water samples are scheduled for ICP-MS analysis. Please advise on how the laboratory may proceed.

E. Corrective Action taken for above:

Resolution : Per Region 9, proceed with analyzing sample YE8H7 by ICP-MS as scheduled. The laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples.

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Mountainside, NJ 07092

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 YE8F5 For Aluminum:

If C = 194.5363 ppm
Vf = 100 ml
W = 1.30 g
S = 0.959(95.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 194.5363 \times \frac{100}{1.30 \times 0.959} \times 1$$

$$= 15604.0988 \text{ mg/kg}$$

$$= 16000 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for ICP-MS Soil Sample:

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

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

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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 YE8F5 For Antimony :

If C = 0.56 ppb
Vf = 500 ml
W = 1.25 g
S = 0.959(95.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.56 \times \frac{500}{1.25 \times 0.959} \times 1 / 1000$$

$$= 0.23357 \text{ mg/kg}$$

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

Calculation for ICP-MS Water Sample:

$$\text{Concentration or Result (µg/L)} = C \times \frac{Vf}{Vi} \times DF$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Sample YE8H7 For Manganese:

If C = 0.37 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result (µg/L)} = 0.37 \times \frac{50}{50} \times 1$$

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= 0.37 µg/L

= 0.37 µg/L (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

Example Calculation For Sample YE8F5:

If C = 0.4536 ppb
Vf = 100 mL
W = 0.56g
S = 0.959(95.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.4536 \times \frac{100}{0.56 \times 0.959} \times 1 / 1000$$

= 0.08446 mg/kg

= 0.084 mg/kg (Reported Result with Signification)

Calculation for Hg Water Sample:

Concentration or Result (µg/L) = C x DF

Where,

C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

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Example Calculation For Mercury:

If C = 0.1811 ppb
DF = 1

Concentration or Result (µg/L) = 0.1811 x 1
= 0.1811 µg/L
= 0.18 µg/L (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 except for Molybdenum,. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Aluminum, Calcium, Iron, Magnesium, Arsenic, Sodium.

As per scheduling, pH analysis is required for soil samples and the pH analysis data is provided with hardcopy.

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.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb

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Calcium	45Sc
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Iron	45Sc
Lead	209Bi
Magnesium	45Sc
Manganese	45Sc
Molybdenum	89Y
Nickel	45Sc
Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc
Strontium	89Y
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: 04/13/2022	**MA:** 3152.0	**Title:** ICP-MS Analysis Plus Molybdenum and Strontium
Method Source: SFAM01.1	**Method:** ICP-MS	
Matrix: Aqueous/Water and Soil/Sediment		

Summary of Modification

The purpose of this modified analysis is to analyze aqueous/water and soil/sediment samples by ICP-MS with the addition of the non-routine analytes Molybdenum (Mo) and Strontium (Sr). 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.

I. Analyte Modifications **Not applicable** ☐

Analyte	CAS Number	CRQL (µg/L)	CRQL (mg/kg)	Spike Added (µg/L)	Spike Added (mg/kg)
Molybdenum (Mo)	7439-98-7	10.0	2.0	200	50
Strontium (Sr)	7440-24-6	2.0	96.0	100	1000

II. Calibration and QC Requirements **Not applicable** ☐

The Laboratory shall:

- Ensure Method Detection Limits have been determined for Molybdenum and Strontium in aqueous/water and soil/sediment matrices by the preparation methods used for the samples that meet all applicable SOW requirements.
- Perform the Initial Calibration with at least one non-blank standard at or below the modified CRQLs, converted to µg/L as necessary.
- Add Mo and Sr to the ICV and CCV at appropriate mid-range concentrations.
- Evaluate the ICB and CCB against the modified CRQLs converted to µg/L as necessary.
- Evaluate the Preparation Blanks using the modified CRQLs.
- Perform the Matrix Spike at the levels specified above. Post-digestion spike requirements are per the SOW.
- Flag the Duplicates based on the modified CRQLs.
- Add Mo and Sr to the LCS at 2 times the appropriate modified CRQLs.
- Not add Sr to the ICS. Use a true value of 0 (zero) and acceptance windows of ±2x the aqueous CRQL, unless a non-zero concentration for Sr has been determined.
- If mass 97 is monitored for Mo, ensure that isobaric interference correction is applied if necessary for levels of Calcium found in samples.

III. Preparation and Method Modifications **Not applicable** ☒

IV. Special Reporting Requirements **Not applicable** ☐

The Laboratory shall:

- Add Molybdenum and Strontium to Form 1.
- Report the "J" and "U" qualifiers in accordance with the requirements in Exhibit B, Section 3.4.3.2.4.2, using the modified CRQLs.
- Ensure that the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the corrective action taken. These problems may include

problems encountered during analysis, dilutions, re-analyses or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analysis including a copy of the approved modification with the SDG Narrative.

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Tuesday, January 21, 2025 3:34 PM
To: Sohil Jodhani; Mohammad Ahmed; Deepak Parmar
Cc: R9RSCC (R9RSCC@epa.gov); carmon.jamie@epa.gov; Spiegel, Michael (he/him/his); Bauer, Heather E; Johnson, Matthew
Subject: Task Area SST | Region 09 | Case 51955 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC | FINAL
Attachments: SKM_95825011811530.pdf

Good afternoon,

Please see the resolutions below.

Issue 1: The COC indicates that water sample YE8H7 should be analyzed by ICP-AES, but water samples are scheduled for ICP-MS analysis. Please advise on how the laboratory may proceed.
Resolution 1: Per Region 9, proceed with analyzing sample YE8H7 by ICP-MS as scheduled. The laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 2: The COC indicates that water sample YE8H8 should be analyzed by VOA, but water samples are not scheduled for VOA analysis. Please advise on how the laboratory may proceed.
Resolution 2: Per Region 9, proceed with analyzing sample YE8H8 by TVOA as scheduled. 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 7, 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

From: R9RSCC <R9RSCC@epa.gov>
Sent: Tuesday, January 21, 2025 1:28 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>; Shaeffer, Casey <Casey.Shaeffer@gdit.com>
Cc: R9RSCC <R9RSCC@epa.gov>
Subject: RE: Task Area SST | Region 09 | Case 51955 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Hi Casey,

Issue 1: The sampler made a mistake, please run the water samples as scheduled (ICP-MS)
Issue 2: The sample made a mistake, please run the water samples as scheduled (Trace VOAs)

Thanks
-Jamie
Jamie Carmon (she/her)
****
Region 9
RSCC (Regional Sample Control Coordinator)
Email: R9RSCC@epa.gov

From: Shaeffer, Casey <Casey.Shaeffer@gdit.com> **On Behalf Of** Hairston, Miles (NE)
Sent: Monday, January 20, 2025 6:36 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: Task Area SST | Region 09 | Case 51955 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Good morning,

Please see the below issues from ACE.

Issue 1: The COC indicates that water sample YE8H7 should be analyzed for ICP-AES analysis, but water samples are scheduled for ICP-MS analysis. Please advise on how the laboratory may proceed.

Issue 2: The COC indicates that water sample YE8H8 should be analyzed for VOA analysis, but water samples are not scheduled for VOA analysis. Please advise on how the laboratory may proceed.

Thank you,

Casey Shaeffer

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 4 & 10
Under contract to the EPA

T: (571) 454-2416
casey.shaeffer@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave Alert: None

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, January 20, 2025 8:22 AM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: RE: Region 09 | Case 51955 | 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 morning,

One more issue found after further review As per ASR ICP-MS analysis is schedule for water sample . however ICP-AES analysis is mentioned on COC. Therefor Lab like to know how to process ?

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

From: Deepak Parmar
Sent: Saturday, January 18, 2025 12:12 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>

Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 09 | Case 51955 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Good morning,

As per ASR VOA analysis is not schedule for water sample in this Case however, sample YE8H8 mentioned for VOA analysis. Therefor Lab like to know how to process ?

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: 1/24/2025

OVENTEMP IN Celsius(°C): 106
Time IN: 13:25
In Date: 01/23/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:47
Out Date: 01/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134377

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
Q1135-01	YE8F5	1	1.17	8.57	9.74	9.39	95.9	
Q1135-02	YE8F7	2	1.16	8.60	9.76	9.00	91.2	
Q1135-03	YE8F7D	3	1.16	8.60	9.76	9.00	91.2	
Q1135-04	YE8F7S	4	1.16	8.60	9.76	9.00	91.2	
Q1135-05	YE8F8	5	1.15	8.70	9.85	9.23	92.9	
Q1135-06	YE8F9	6	1.14	8.83	9.97	9.41	93.7	
Q1135-07	YE8H9	7	1.19	8.50	9.69	8.34	84.1	
Q1135-08	YE8J0	8	1.12	8.65	9.77	7.98	79.3	
Q1135-10	YE8J1	9	1.19	8.63	9.82	8.15	80.6	
Q1135-11	YE8E3	10	1.18	8.45	9.63	7.46	74.3	
Q1135-12	YE8E4	11	1.15	8.82	9.97	8.5	83.3	
Q1135-13	YE8E5	12	1.19	8.58	9.77	7.96	78.9	
Q1135-14	YE8E6	13	1.15	8.81	9.96	9.09	90.1	
Q1135-15	YE8E7	14	1.14	8.84	9.98	9.42	93.7	
Q1135-16	YE8E8	15	1.16	8.79	9.95	8.67	85.4	
Q1135-17	YE8D2	16	1.13	8.56	9.69	9.13	93.5	
Q1135-18	YE8D4	17	1.18	8.50	9.68	8.38	84.7	
Q1135-19	YE8C3	18	1.13	8.63	9.76	9.15	92.9	
Q1135-21	YE8D0	19	1.12	8.66	9.78	8.81	88.8	
Q1135-22	YE8D5	20	1.18	8.50	9.68	9.32	95.8	

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

WORKLIST(Hardcopy Internal Chain)

VP 134377

WorkList Name : %1-q1135 **WorkList ID :** 187094 **Department :** Wet-Chemistry **Date :** 01-23-2025 11:22:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1135-01	YE8F5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/15/2025	Chemtech -SO
Q1135-02	YE8F7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/15/2025	Chemtech -SO
Q1135-03	YE8F7D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/15/2025	Chemtech -SO
Q1135-04	YE8F7S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/15/2025	Chemtech -SO
Q1135-05	YE8F8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/15/2025	Chemtech -SO
Q1135-06	YE8F9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/15/2025	Chemtech -SO
Q1135-07	YE8H9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/15/2025	Chemtech -SO
Q1135-08	YE8J0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/16/2025	Chemtech -SO
Q1135-10	YE8J1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/16/2025	Chemtech -SO
Q1135-11	YE8E3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/16/2025	Chemtech -SO
Q1135-12	YE8E4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/17/2025	Chemtech -SO
Q1135-13	YE8E5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/17/2025	Chemtech -SO
Q1135-14	YE8E6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/17/2025	Chemtech -SO
Q1135-15	YE8E7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/17/2025	Chemtech -SO
Q1135-16	YE8E8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/17/2025	Chemtech -SO
Q1135-17	YE8D2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/17/2025	Chemtech -SO
Q1135-18	YE8D4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/19/2025	Chemtech -SO
Q1135-19	YE8C3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/18/2025	Chemtech -SO
Q1135-21	YE8D0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/19/2025	Chemtech -SO
Q1135-22	YE8D5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	01/18/2025	Chemtech -SO

Date/Time 01/23/25 12:30

Raw Sample Received by: TB (WC)

Raw Sample Relinquished by: [signature]

Date/Time 01/23/25 13:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: TB (WC)