SDG COVER PAGE

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

Lab Code: ACE Case No.: 51952 MA No.: SDG No.: A6313

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
A6313	Q1246-01	X	X	X	
A6314	Q1246-02	X	X	X	
A6325	Q1246-03	X	X	X	
A6326	Q1246-04	X	X	X	
A6331	Q1246-05	X	X	X	
A6332	Q1246-06	X	X	X	
A6333	Q1246-07	X	X	X	
A6334	Q1246-08	X	X	X	
A6342	Q1246-09	X	X	X	
A6342D	Q1246-10	X	X	X	
A6342S	Q1246-11	X	X	X	
A6343	Q1246-12	X	X	X	
A6344	Q1246-13	X	X	X	
A6345	Q1246-14	X	X	X	
A6346	Q1246-15	X	X	X	
A6347	Q1246-16	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 # A6313

USEPA CLP COC (LAB COPY)

DateShipped: 1/30/2025

CarrierName: FedEx

AirbillNo: 771783263096

CHAIN OF CUSTODY RECORD

Case #: 51952

Cooler #: 5

No: 1-013025-152400-0013

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 9087898900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
R01092501-1	A6311	PE Water/ ERA	PE	Metals ICP-MS(21)	A (4 C) (1)	PE	01/09/2025 12:00	✓ heated
R01092501-2	A6312	PE Water/ ERA	PE	Metals ICP-MS(21)	A (4 C) (1)	PE	01/09/2025 12:00	✓
R01092501-3	A6313	PE Soil/ ERA	PE	Metals ICP-MS, ICP-AES, Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	
R01092501-4	A6314	PE Soil/ ERA	PE	Metals ICP-MS, ICP-AES, Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	
R01092501-5	A6315	PE Water/ ERA	PE	Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	✓
R01092501-6	A6316	PE Water/ ERA	PE	Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	✓
R01092501-7	A6317	PE Water/ ERA	PE	PAH/PCP SIM(21)	A (4 C) (1)	PE	01/09/2025 12:00	
R01092501-8	A6318	PE Soil/ ERA	PE	PAH/PCP SIM(21)	A (4 C) (2)	PE	01/09/2025 12:00	
R01092501-9	A6319	PE Soil/ ERA	PE	PAH/PCP SIM(21)	A (4 C) (2)	PE	01/09/2025 12:00	
SD-026-012925	A6325	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	R (4 C), S (4 C) (2)	SD/SW/PW-026	01/29/2025 09:35	
SD-REF-10-012925	A6326	Sediment/ B.Fortier	Grab	Metals + Hg(21), PAH SIM(21)	T (4 C), U (4 C) (2)	REF-10	01/29/2025 09:00	
SW-REF-03-012925	A6327	Surface Water/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	V (HNO3), W (4 C) (4)	REF-03	01/29/2025 10:20	✓
SW-REF-02-012925	A6328	Surface Water/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	X (HNO3), Y (4 C) (4)	REF-02	01/29/2025 11:20	✓

Special Instructions: Sediment samples require 72 hour preliminary results.

Sediment ICP-MS: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn

ICP-AES: Al, Ca, Fe, K, Mg, Na

Surface Water ICP-MS Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Analysis Key

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	NOBIS	1/30/25 1700		9:35 1-31-25	IR-Gun # 1 1.9; 2.9; 2.4; 2.1; 2.0 C Custody Seal Intact Temp Blank present

68HERH20D0011

SDG # A6313

USEPA CLP COC (LAB COPY)

DateShipped: 1/30/2025

CarrierName: FedEx

AirbillNo: 771783263096

CHAIN OF CUSTODY RECORD

Case #: 51952

Cooler #: 5

No: 1-013025-152400-0013

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 9087898900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
R01092501-1	A6311	PE Water/ ERA	PE	Metals ICP-MS(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-2	A6312	PE Water/ ERA	PE	Metals ICP-MS(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-3	A6313	PE Soil/ ERA	PE	Metals ICP-MS, ICP-AES, Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	✓ 5 sediment
R01092501-4	A6314	PE Soil/ ERA	PE	Metals ICP-MS, ICP-AES, Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	✓ 5
R01092501-5	A6315	PE Water/ ERA	PE	Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-6	A6316	PE Water/ ERA	PE	Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-7	A6317	PE Water/ ERA	PE	PAH/PCP SIM(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-8	A6318	PE Soil/ ERA	PE	PAH/PCP SIM(21)	A (4 C) (2)	PE	01/09/2025 12:00	5
R01092501-9	A6319	PE Soil/ ERA	PE	PAH/PCP SIM(21)	A (4 C) (2)	PE	01/09/2025 12:00	5
SD-026-012925	A6325	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	R (4 C), S (4 C) (2)	SD/SW/PW-026	01/29/2025 09:35	✓ 5
SD-REF-10-012925	A6326	Sediment/ B.Fortier	Grab	Metals + Hg(21), PAH SIM(21)	T (4 C), U (4 C) (2)	REF-10	01/29/2025 09:00	✓ 5
SW-REF-03-012925	A6327	Surface Water/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	V (HNO3), W (4 C) (4)	REF-03	01/29/2025 10:20	3
SW-REF-02-012925	A6328	Surface Water/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	X (HNO3), Y (4 C) (4)	REF-02	01/29/2025 11:20	4

Special Instructions: Sediment samples require 72 hour preliminary results.
Sediment ICP-MS: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn
ICP-AES: Al, Ca, Fe, K, Mg, Na
Surface Water ICP-MS Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	NOBIS	1/30/25 1700		9:35 1-31-25	IR-Gun #1 1.9; 2.9; 2.4; 2.1; 2.0 C Custody Seal Intact Temp Blank present

68HERH20D0011 SDG # A6313

USEPA CLP COC (LAB COPY)

DateShipped: 1/30/2025
CarrierName: FedEx
AirbillNo: 771783263096

CHAIN OF CUSTODY RECORD

Case #: 51952
Cooler #: 5

No: 1-013025-152400-0013

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 9087898900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
SW-FD01-012925	A6329	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	FD-01	01/29/2025 12:00	4
SW-REF-01-012925	A6330	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	REF-01	01/29/2025 12:15	3
SD-REF-03-012925	A6331	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	N (4 C), O (4 C) (2)	REF-03	01/29/2025 11:30	✓ 5
SD-REF-02-012925	A6332	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	P (4 C), Q (4 C) (2)	REF-02	01/29/2025 12:55	✓ 5
SD-REF-01-012925	A6333	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	R (4 C), S (4 C) (2)	REF-01	01/29/2025 13:15	✓ 5
SD-FD02-012925	A6334	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	T (4 C), U (4 C) (2)	FD-02	01/29/2025 13:00	✓ 5
SW-REF-07-012925	A6335	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (12)	REF-07	01/29/2025 15:00	3
SW-REF-08-012925	A6336	Surface Water/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	X (HNO3), Y (4 C) (4)	REF-08	01/29/2025 15:30	4
SD-EB-012925	A6337	Equipment Blank/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	N (HNO3), O (4 C) (4)	Equipment Blank	01/29/2025 17:00	3
SW-REF-09-013025	A6338	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	REF-09	01/30/2025 08:10	2

Sample(s) to be used for Lab QC: SW-REF-07-012925 Tag A, SW-REF-07-012925 Tag Z - Special Instructions: Sediment samples require 72 hour preliminary results.

Sediment ICP-MS: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn

ICP-AES: Al, Ca, Fe, K, Mg, Na

Surface Water ICP-MS Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Analysis Key

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	NOBIS	1/30/25 1700		9:35 1-31-25	IR Gun # 1c 1.9, 2.9, 2.4, 2.1, 2.0 -
					Custody Seal Intact
					Temp Blank present

68HERH20D0011 SDG # A6313

USEPA CLP COC (LAB COPY)

DateShipped: 1/30/2025
CarrierName: FedEx
AirbillNo: 771783263096

CHAIN OF CUSTODY RECORD

Case #: 51952
Cooler #: 5

No: 1-013025-152400-0013

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 9087898900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
SW-REF-06-013025	A6339	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	REF-06	01/30/2025 08:45	2
SW-REF-05-013025	A6340	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	REF-05	01/30/2025 09:05	2
SW-REF-04-013025	A6341	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	REF-04	01/30/2025 09:40	2
SD-REF-07-013025	A6342	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	V (4 C), W (4 C) (6)	REF-07	01/30/2025 08:15	✓ 1
SD-REF-09-013025	A6343	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	R (4 C), S (4 C) (2)	REF-09	01/30/2025 09:10	✓ 5
SD-REF-06-013025	A6344	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	T (4 C), U (4 C) (2)	REF-06	01/30/2025 09:35	✓ 1
SD-REF-05-013025	A6345	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	V (4 C), W (4 C) (2)	REF-05	01/30/2025 11:40	✓ 1
SD-REF-11-013025	A6346	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	X (4 C), Y (4 C) (2)	REF-11	01/30/2025 12:35	✓ 1
SD-REF-08-013025	A6347	Sediment/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (4 C) (2)	REF-08	01/30/2025 10:50	✓ 1

Sample(s) to be used for Lab QC: SD-REF-07-013025 Tag V, SD-REF-07-013025 Tag W - Special Instructions: Sediment samples require 72 hour preliminary results.
Sediment ICP-MS: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn
ICP-AES: Al, Ca, Fe, K, Mg, Na
Surface Water ICP-MS Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn
Analysis Key

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	[signature] NOBIS	1/30/25 1700	[signature]	9:35 1-31-25	IR Gun#1 1.9, 2.9, 2.4, 2.1, 2.0

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 2
Received By (Print Name) Casanova Rina		Log-in Date 1/31/2025
Received By (Signature)		
Case Number 51952	SDG No. A6313	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	771783265331 1
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	01/31/2025
12.Time Received	09:35

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	A6313	N/A	A	Q1246-01	Intact
2	A6314	N/A	A	Q1246-02	Intact
3	A6325	N/A	R	Q1246-03	Intact
4	A6326	N/A	T	Q1246-04	Intact
5	A6331	N/A	N	Q1246-05	Intact
6	A6332	N/A	P	Q1246-06	Intact
7	A6333	N/A	R	Q1246-07	Intact
8	A6334	N/A	T	Q1246-08	Intact
9	A6343	N/A	R	Q1246-12	Intact
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 1/31/25	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) Cassanova Ruiz		Log-in Date 1/31/2025
Received By (Signature)		
Case Number 51952	SDG No. A6313	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	771783263096 2
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	01/31/2025
12.Time Received	09:35

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	A6342	N/A	V	Q1246-09	Intact
2	A6342D	N/A	V	Q1246-10	Intact
3	A6342S	N/A	V	Q1246-11	Intact
4	A6344	N/A	T	Q1246-13	Intact
5	A6345	N/A	V	Q1246-14	Intact
6	A6346	N/A	X	Q1246-15	Intact
7	A6347	N/A	A	Q1246-16	Intact
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 1/31/25	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.	**51952**	SDG NO.	**A6313**
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	21	✓	
7. Percent Solids Log	22	23	✓	
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	24	37	✓	
9. Instrument raw data by instrument in analysis order	38	181	✓	
Other Data				
10. Standard and Reagent Preparation Logs	182	323	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	324	325	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	326	328	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	329	329	✓	
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	330	343	✓	
18. Instrument raw data by instrument in analysis order	344	814	✓	
Other Data				
19. Standard and Reagent Preparation Logs	815	961	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	962	963	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	964	967	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	968	968	✓	

	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	969	982	✓	
27. Instrument raw data by instrument in analysis order	983	984	✓	
Other Data				
28. Standard and Reagent Preparation Logs	985	1009	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1010	1011	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1012	1013	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	1014	1014	✓	
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 2)	1015	1016	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1017	1019	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1020	1022	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

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

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # A6313
CASE # 51952
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1246

A. Number of Samples and Date of Receipt

14 Soil samples were delivered to the laboratory intact on 01/31/2025.

B. Parameter

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

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

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.0^{o}C, 1.9^{o}C

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

Issue 1: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.

E. Corrective Action taken for above:

Resolution 1: Per Region 1, the PT samples do not require preliminary results (PRs). The PT instructions are attached. Please note the issue in the SDG narrative and proceed with analysis of the samples.

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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 A6313 For Aluminum:

If C = 52.67088 ppm
Vf = 100 ml
W = 1.27 g
S = 1.0 (100/100)
DF = 1

$$\text{Concentration (mg/kg)} = 52.67088 \times \frac{100}{1.27 \times 1.0} \times 1$$

$$= 4147.3133 \text{ mg/kg}$$

$$= 4200 \text{ mg/kg (Reported Result with Signification)}$$

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 A6313 For Antimony:

If C = 62.03 ppb
Vf = 500 ml
W = 1.23 g
S = 1.0 (100/100)
DF = 1

$$\text{Concentration (mg/kg)} = 62.03 \times \frac{500}{1.23 \times 1.0} \times 1 / 1000$$

$$= 25.2154 \text{ mg/kg}$$

$$= 25 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for Hg Soil Sample:

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

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

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 A6347:

If C = 0.2007 ppb
Vf = 100 mL
W = 0.58g
S = 0.524 (52.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.2007 \times \frac{100}{0.58 \times 0.524} \times 1 / 1000$$

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= 0.06603 mg/kg

= 0.066 mg/kg (Reported Result with Signification)

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Selenium. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Some samples have % solids results less than 50% but more than 30%. Some samples have % solids results less than 30%. Please see below table for detail. Laboratory has processed these samples according to the SFAM01.1 SOW, Exhibit D, sections 10.1.1.8., 10.1.1.7 and 10.1.1.7.1.

EPA Sample ID	% Solid
A6325	28.7
A6326	37.5
A6331	15.5
A6332	35.9
A6333	23.3
A6334	21.3
A6344	38.1
A6345	33.4

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

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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: DeBerry, Eric <Eric.Deberry@gdit.com>
Sent: Friday, January 31, 2025 2:30 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: Johnson, Matthew; Bauer, Heather E; Iverson, Jessica
Subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple | FINAL
Attachments: PE Instructions 01.31.25 (003).pdf; SKM_95825013110190.pdf; 51952-TR COC.pdf

Good afternoon ACE,

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.

Resolution 1: Per Region 1, the laboratory should proceed with reporting the results for these samples. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.

Resolution 2: Per Region 1, the PT samples do not require preliminary results (PRs). The PT instructions are attached. Please note the issue in the SDG narrative and proceed with analysis of the samples.

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

Thanks,

Eric DeBerry

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

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Eric.DeBerry@GDIT.com

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Chantilly, VA 20151
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GENERAL DYNAMICS
information technology

From: Iverson, Jessica <iverson.jessica@epa.gov>
Sent: Friday, January 31, 2025 1:18 PM
To: DeBerry, Eric <Eric.Deberry@gdit.com>
Subject: FW: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.
Yes, the laboratory should proceed with reporting the results for these samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.
The PT samples do not require preliminary results (PRs). The PT instructions are attached.

Jessica Iverson
QA Chemist|Regional Sample Coordinator
Quality Assurance Branch
Laboratory Services and Applied Science Division
EPA Region 1 – New England
Phone: 617-918-8630

From: Gary Glennon <gglennon@nobis-group.com>
Sent: Friday, January 31, 2025 12:40 PM
To: Iverson, Jessica <iverson.jessica@epa.gov>
Cc: Alyssa Epstein <aepstein@nobis-group.com>
Subject: RE: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

Hi Jessica,

Please see my responses in red below.
Thanks!

Gary Glennon *he/him/his*
Data Integration Specialist

Nobis Group® - 100% Employee-Owned
engineering & environmental **solutions**
55 Technology Drive Suite 101, Lowell, MA 01851
p (978) 703-6007 • c (617) 943-3361

From: Iverson, Jessica <iverson.jessica@epa.gov>
Sent: Friday, January 31, 2025 11:56 AM
To: Gary Glennon <gglennon@nobis-group.com>
Subject: FW: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

EXTERNAL

Hello,

Please advise on the following issues from ACE.

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.
Yes, the laboratory should proceed with reporting the results for these samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.
The PT samples do not require preliminary results (PRs). The PT instructions are attached.

Jessica Iverson
QA Chemist|Regional Sample Coordinator
Quality Assurance Branch
Laboratory Services and Applied Science Division
EPA Region 1 – New England
Phone: 617-918-8630

From: Iverson, Jessica
Sent: Friday, January 31, 2025 11:55 AM

To: DeBerry, Eric <Eric.Deberry@gdit.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: RE: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

Hello,

On the last communication the sampler stated that PT instructions were provided to the laboratory when the samples were dropped off. I will inquire about both issues and ask for additional copies of the instructions to be sent.

Jessica Iverson
QA Chemist|Regional Sample Coordinator
Quality Assurance Branch
Laboratory Services and Applied Science Division
EPA Region 1 – New England
Phone: 617-918-8630

From: DeBerry, Eric <Eric.Deberry@gdit.com>
Sent: Friday, January 31, 2025 11:44 AM
To: Iverson, Jessica <iverson.jessica@epa.gov>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

Good morning Jessica,

Please advise on the following issues from ACE.

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.

Thanks,

Eric DeBerry

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

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Chantilly, VA 20151
www.gdit.com

From: Deepak Parmar Deepak.Parmar@alliancetg.com
Sent: Friday, January 31, 2025 11:23 AM
To: DeBerry, Eric Eric.Deberry@gdit.com
Cc: Sohil Jodhani Sohil.Jodhani@AllianceTG.com
Subject: Region 01 | Case 51952 | Lab ACE | Issue Discrepancies with COC /PE Instruction.

Good morning,

PE Instruction missing for all PE sample received for this Case. PE samples required PR ?

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: Sohil Jodhani <Sohil.Jodhani@alliancetg.com>
Sent: Friday, January 31, 2025 10:23 AM
To: DeBerry, Eric <Eric.Deberry@gdit.com>
Cc: Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Percent Solids

Hi,

Lab has received sediments samples for this case and samples required PR as per scheduling. Lab has proceeded with the analysis for SVOA upon receipt of the samples. Lab did the percent solids for the samples under this case and found that the samples A6301, A6302, A6305, A6307, A6322, A6323 & A6324 has less than 30% solids. In this case, lab has already processed the samples with 30g sample volume due to Preliminary results required for the samples and Lab will report final data as processed. Please note that samples do not have any standing water received in the container and sample matrix is very light textured soil. Please confirm that the resolution will be applied for this case.

Please see attached.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3152
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 14:40
In Date: 01/31/2025
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: 02/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134503

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
Q1246-01	A6313	1	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
Q1246-02	A6314	2	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
Q1246-03	A6325	3	1.15	8.82	9.97	3.68	28.7	
Q1246-04	A6326	4	1.16	8.53	9.69	4.36	37.5	
Q1246-05	A6331	5	1.16	8.82	9.98	2.53	15.5	
Q1246-06	A6332	6	1.15	8.58	9.73	4.23	35.9	
Q1246-07	A6333	7	1.17	8.80	9.97	3.22	23.3	
Q1246-08	A6334	8	1.16	8.63	9.79	3.00	21.3	
Q1246-09	A6342	9	1.18	8.54	9.72	6.47	61.9	
Q1246-10	A6342D	10	1.18	8.54	9.72	6.47	61.9	
Q1246-11	A6342S	11	1.18	8.54	9.72	6.47	61.9	
Q1246-12	A6343	12	1.15	8.81	9.96	5.83	53.1	
Q1246-13	A6344	13	1.13	8.64	9.77	4.42	38.1	
Q1246-14	A6345	14	1.13	8.57	9.7	3.99	33.4	
Q1246-15	A6346	15	1.13	8.86	9.99	7.12	67.6	
Q1246-16	A6347	16	1.14	8.84	9.98	5.77	52.4	

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

WORKLIST(Hardcopy Internal Chain)

VB 134503

WorkList Name : %1-q1246 **WorkList ID :** 187361 **Department :** Wet-Chemistry **Date :** 01-31-2025 13:32:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1246-01	A6313	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/09/2025	Chemtech -SO
Q1246-02	A6314	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/09/2025	Chemtech -SO
Q1246-03	A6325	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1246-04	A6326	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1246-05	A6331	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1246-06	A6332	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1246-07	A6333	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1246-08	A6334	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1246-09	A6342	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/30/2025	Chemtech -SO
Q1246-10	A6342D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/30/2025	Chemtech -SO
Q1246-11	A6342S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/30/2025	Chemtech -SO
Q1246-12	A6343	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/30/2025	Chemtech -SO
Q1246-13	A6344	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/30/2025	Chemtech -SO
Q1246-14	A6345	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/30/2025	Chemtech -SO
Q1246-15	A6346	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/30/2025	Chemtech -SO
Q1246-16	A6347	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/30/2025	Chemtech -SO

Date/Time 01/31/25 13:45
Raw Sample Received by: JR WC
Raw Sample Relinquished by: SM

Date/Time 01/31/25 14:45
Raw Sample Received by: SM
Raw Sample Relinquished by: JR WC