SDG COVER PAGE

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

Lab Code: ACE Case No.: 51981 MA No.: SDG No.: E1491

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
E1491	Q1251-01	X			
E1492	Q1251-02	X			
E1493	Q1251-03	X			
E1494	Q1251-04	X			
E1495	Q1251-05	X			
E1496	Q1251-06	X			
E1496D	Q1251-07	X			
E1496S	Q1251-08	X			
E1497	Q1251-09	X			
E1498	Q1251-10	X			

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

Signature: Name:

Date: Title:

USEPA CLP COC (LAB COPY)
DateShipped: 1/30/2025
CarrierName: FedEx
AirbillNo: 284926802545

CHAIN OF CUSTODY RECORD
Case #: ~~51889~~ 51981 ok
Contact Name: Abby Slates

No: 5-012925-160057-0247
Lab Address: 284 Sheffield St
Lab Contact: Mohammed Ahmed
Contact Phone: 6145784969

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
9836F-00/06	E1491	Soil/ CH2M	Composite	AsPb(21)	16866 (None) (1)	JEFFERSON AVE	01/29/2025 10:00	51981
FD-001A-20250129	E1492	Soil/ CH2M	Composite	AsPb(21)	16867 (None) (1)	JEFFERSON AVE	01/29/2025 10:01	
9836F-06/12	E1493	Soil/ CH2M	Composite	AsPb(21)	16868 (None) (1)	JEFFERSON AVE	01/29/2025 10:02	
9836F-12/18	E1494	Soil/ CH2M	Composite	AsPb(21)	16869 (None) (1)	JEFFERSON AVE	01/29/2025 10:04	
9836B-00/06	E1495	Soil/ CH2M	Composite	AsPb(21)	16871 (None) (1)	JEFFERSON AVE	01/29/2025 10:06	
9836B-06/12	E1496	Soil/ CH2M	Composite	AsPb(21)	16872 (None), 16873 (None) (2)	JEFFERSON AVE	01/29/2025 10:08	
9836B-12/18	E1497	Soil/ CH2M	Composite	AsPb(21)	16875 (None) (1)	JEFFERSON AVE	01/29/2025 10:10	
EB01A-20250129	E1498	Water/ CH2M	Grab	AsPb(21)	16876 (HNO3 pH<2) (1)	EQUIPMENT BLANK	01/29/2025 11:30	pH 1.0

Sample(s) to be used for Lab QC: 9836B-06/12 Tag 16872, 9836B-06/12 Tag 16873 - Special Instructions: Custody Seal No. Y140683, Y140684

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: AsPb=ICP-AES As & Pb

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Jacobs	1/30/25 12:00pm		01/31/25 0925	10.7°C No Temp blank present
					IR GUN #1 No Ice
					Custody Seal Intact
					Y140683 Y140684

USEPA CLP COC (LAB COPY)

DateShipped: 1/30/2025

CarrierName: FedEx

AirbillNo: 284926802545

CHAIN OF CUSTODY RECORD

Case #: 51981

Contact Name: Abby Slates

No: 5-012925-160057-0247

Lab Address: 284 Sheffield St

Lab Contact: Mohammed Ahmed

Contact Phone: 6145784969

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
9836F-00/06	E1491	Soil/ CH2M	Composite	AsPb(21)	16866 (None) (1)	JEFFERSON AVE	01/29/2025 10:00	
FD-001A-20250129	E1492	Soil/ CH2M	Composite	AsPb(21)	16867 (None) (1)	JEFFERSON AVE	01/29/2025 10:01	
9836F-06/12	E1493	Soil/ CH2M	Composite	AsPb(21)	16868 (None) (1)	JEFFERSON AVE	01/29/2025 10:02	
9836F-12/18	E1494	Soil/ CH2M	Composite	AsPb(21)	16869 (None) (1)	JEFFERSON AVE	01/29/2025 10:04	
9836B-00/06	E1495	Soil/ CH2M	Composite	AsPb(21)	16871 (None) (1)	JEFFERSON AVE	01/29/2025 10:06	
9836B-06/12	E1496	Soil/ CH2M	Composite	AsPb(21)	16872 (None), 16873 (None) (2)	JEFFERSON AVE	01/29/2025 10:08	
9836B-12/18	E1497	Soil/ CH2M	Composite	AsPb(21)	16875 (None) (1)	JEFFERSON AVE	01/29/2025 10:10	
EB01A-20250129	E1498	Water/ CH2M	Grab	AsPb(21)	16876 (HNO3 pH<2) (1)	EQUIPMENT BLANK	01/29/2025 11:30	

Sample(s) to be used for Lab QC: 9836B-06/12 Tag 16872, 9836B-06/12 Tag 16873 - Special Instructions: Custody Seal No. Y140683, Y140684

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: AsPb=ICP-AES As & Pb

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
				01/31/25 0935	10.7°C
					No Temp blank No Ice
					IR Gun #1 Custody Seal Intact
					Y140683 Y140684

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Casanova Reina		Log-in Date 1/31/2025
Received By (Signature)		
Case Number 51981	SDG No. E1491	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	Y140683,Y140684
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	284926802545 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	10.7 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	E1491	N/A	16866	Q1251-01	Intact
2	E1492	N/A	16867	Q1251-02	Intact
3	E1493	N/A	16868	Q1251-03	Intact
4	E1494	N/A	16869	Q1251-04	Intact
5	E1495	N/A	16871	Q1251-05	Intact
6	E1496	N/A	16872,73	Q1251-06	Intact
7	E1496D	N/A	16872,73	Q1251-07	Intact
8	E1496S	N/A	16872,73	Q1251-08	Intact
9	E1497	N/A	16875	Q1251-09	Intact
10	E1498	1.0	16876	Q1251-10	Intact
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	OK	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.	**51981**	SDG NO.	**E1491**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	3	✓	
3 . Sample Log-In Sheet (DC-1)	4	4	✓	
4 . CSF Inventory Sheet (DC-2)	5	7	✓	
5 . SDG Narrative	8	10	✓	
6 . Communication Logs	NA	NA	✓	
7 . Percent Solids Log	11	12	✓	
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	13	20	✓	
9 . Instrument raw data by instrument in analysis order	21	214	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	215	368	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	369	372	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	373	376	✓	
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	NA	NA	✓	
18 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	NA	NA	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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	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	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	377	377	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	378	378	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	379	380	✓	
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 # E1491
CASE # 51981
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1251

A. Number of Samples and Date of Receipt

07 Soil and 01 Water samples were delivered to the laboratory intact on 01/31/2025.

B. Parameters

Test requested for Metals CLP4= Arsenic, Lead.

C. Cooler Temp

Indicator Bottle**:** Presence**/Absence**

Cooler: 10.7^{o}C

D. 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.

E. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

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

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Mountainside, NJ 07092

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 E1491 For Arsenic:

If C = 0.1039964 ppm
Vf = 100 ml
W = 1.25 g
S = 0.783(78.3/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.1039964 \times \frac{100}{1.25 \times 0.783} \times 1$$

$$= 10.6254 \text{ mg/kg}$$

= 11 mg/kg (Reported Result with Signification)

Calculation for ICP-AES Water Sample:

$$\text{Concentration or Result (µg/L)} = C \times \frac{Vf}{Vi} \times DF \times 1000$$

Where,

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

Example Calculation:

If C = 3.134631 ppm
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result (µg/L)} = 3.134631 \times \frac{50}{50} \times 1 \times 1000$$

284 Sheffield Street
Mountainside, NJ 07092

= 3134.631 µg/L

= 3100 µg/L (Reported Result with Signification)

F. 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. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

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

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/4/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 13:25
In Date: 02/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:50
Out Date: 02/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134526

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
Q1251-01	E1491	1	1.15	8.40	9.55	7.73	78.3	
Q1251-02	E1492	2	1.15	8.82	9.97	7.94	77.0	
Q1251-03	E1493	3	1.19	8.40	9.59	8.05	81.7	
Q1251-04	E1494	4	1.16	8.50	9.66	7.93	79.6	
Q1251-05	E1495	5	1.15	8.68	9.83	8.27	82.0	
Q1251-06	E1496	6	1.18	8.67	9.85	8.17	80.6	
Q1251-07	E1496D	7	1.18	8.67	9.85	8.17	80.6	
Q1251-08	E1496S	8	1.18	8.67	9.85	8.17	80.6	
Q1251-09	E1497	9	1.14	8.84	9.98	8.5	83.3	
Q1272-01	MBHHA0	10	1.12	8.64	9.76	8.5	85.4	
Q1272-02	MBHHA1	11	1.12	8.60	9.72	9.26	94.7	
Q1272-03	MBHHA2	12	1.15	8.82	9.97	8.72	85.8	
Q1272-04	MBHHA2D	13	1.15	8.82	9.97	8.72	85.8	
Q1272-05	MBHHA2S	14	1.15	8.82	9.97	8.72	85.8	

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

WORKLIST(Hardcopy Internal Chain)

WP 134526

WorkList Name : %1-Q1251 **WorkList ID :** 187412 **Department :** Wet-Chemistry **Date :** 02-03-2025 12:15:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1251-01	E1491	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1251-02	E1492	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1251-03	E1493	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1251-04	E1494	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1251-05	E1495	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1251-06	E1496	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1251-07	E1496D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1251-08	E1496S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1251-09	E1497	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1272-01	MBHHA0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/29/2025	Chemtech -SO
Q1272-02	MBHHA1	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/30/2025	Chemtech -SO
Q1272-03	MBHHA2	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/30/2025	Chemtech -SO
Q1272-04	MBHHA2D	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/30/2025	Chemtech -SO
Q1272-05	MBHHA2S	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/30/2025	Chemtech -SO

Date/Time 02/03/25 12:30

Raw Sample Received by: TA WOC

Raw Sample Relinquished by:

Date/Time 02/03/25 13:30

Raw Sample Received by:

Raw Sample Relinquished by: TA WOC