

## SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
 Lab Code: ACE Case No.: 51925 MA No.: \_\_\_\_\_ SDG No.: GCQ38  
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
<u>GCQ38</u>	<u>Q1047-01</u>	<u>X</u>	_____	_____	_____
<u>GCQ39</u>	<u>Q1047-02</u>	<u>X</u>	_____	_____	_____
<u>GCQ40</u>	<u>Q1047-03</u>	<u>X</u>	_____	_____	_____
<u>GCQ41</u>	<u>Q1047-04</u>	<u>X</u>	_____	_____	_____
<u>GCQ41D</u>	<u>Q1047-05</u>	<u>X</u>	_____	_____	_____
<u>GCQ41S</u>	<u>Q1047-06</u>	<u>X</u>	_____	_____	_____
<u>GCQ42</u>	<u>Q1047-07</u>	<u>X</u>	_____	_____	_____
<u>GCQ43</u>	<u>Q1047-08</u>	<u>X</u>	_____	_____	_____
<u>GCQ44</u>	<u>Q1047-09</u>	<u>X</u>	_____	_____	_____
<u>GCQ45</u>	<u>Q1047-10</u>	<u>X</u>	_____	_____	_____
<u>GCQ46</u>	<u>Q1047-11</u>	<u>X</u>	_____	_____	_____
<u>GCQ47</u>	<u>Q1047-12</u>	<u>X</u>	_____	_____	_____
<u>GCQ48</u>	<u>Q1047-13</u>	<u>X</u>	_____	_____	_____
<u>GCQ49</u>	<u>Q1047-14</u>	<u>X</u>	_____	_____	_____
<u>GCQ50</u>	<u>Q1047-15</u>	<u>X</u>	_____	_____	_____
<u>GCQ51</u>	<u>Q1047-16</u>	<u>X</u>	_____	_____	_____
<u>GCQ52</u>	<u>Q1047-17</u>	<u>X</u>	_____	_____	_____
<u>GCQ53</u>	<u>Q1047-18</u>	<u>X</u>	_____	_____	_____
<u>GCQ54</u>	<u>Q1047-19</u>	<u>X</u>	_____	_____	_____
<u>GCQ55</u>	<u>Q1047-20</u>	<u>X</u>	_____	_____	_____
<u>GCQ56</u>	<u>Q1047-21</u>	<u>X</u>	_____	_____	_____

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 # GCQ38

## USEPA CLP Inorganics COC (LAB COPY)

Region 7 SCRIBE COC Record

No: 7-010725-152111-0000

Date Shipped: 1/8/2025

Lab: Alliance Technical Group LLC (ACE)

Carrier Name: FedEx

Case #: 51925

Lab Contact: Sample Receipt

Airbill No: 8176 1044 3362

Project Code: KMA78D01/2500011

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
2500011-58	GCQ35	Soil/SET/	Grab	SoilMetsAES(21)	2500011058 (4°C) (1)	28628-C5	10/31/2024 14:19	
2500011-59	GCQ36	Soil/SET/	Grab	SoilMetsAES(21)	2500011059 (4°C) (1)	28628-DW1	10/31/2024 14:22	
2500011-60	GCQ37	Soil/SET/	Grab	SoilMetsAES(21)	2500011060 (4°C) (1)	28628-SP	10/31/2024 14:24	
2500011-61	GCQ38	Soil/SET/	Grab	SoilMetsAES(21)	2500011061 (4°C) (1)	28628-DZ	10/31/2024 14:30	
2500011-62	GCQ39	Soil/SET/	Grab	SoilMetsAES(21)	2500011062 (4°C) (1)	28628-LS	10/31/2024 14:32	
2500011-63	GCQ40	Soil/SET/	Grab	SoilMetsAES(21)	2500011063 (4°C) (1)	28628-RK	10/31/2024 14:34	
2500011-64	GCQ41	Soil/SET/	Grab	SoilMetsAES(21)	2500011064 (4°C) (1)	28628-DW	10/25/2024 11:30	
2500011-65	GCQ42	Soil/SET/	Grab	SoilMetsAES(21)	2500011065 (4°C) (1)	28627-RE	10/25/2024 11:32	
2500011-66	GCQ43	Soil/SET/	Grab	SoilMetsAES(21)	2500011066 (4°C) (1)	28627-DZ	10/25/2024 11:34	
2500011-67	GCQ44	Soil/SET/	Grab	SoilMetsAES(21)	2500011067 (4°C) (1)	28627-C1	10/25/2024 11:36	
2500011-68	GCQ45	Soil/SET/	Grab	SoilMetsAES(21)	2500011068 (4°C) (1)	28627-C2	10/25/2024 11:38	
2500011-69	GCQ46	Soil/SET/	Grab	SoilMetsAES(21)	2500011069 (4°C) (1)	28627-C3	10/25/2024 11:40	
2500011-70	GCQ47	Soil/SET/	Grab	SoilMetsAES(21)	2500011070 (4°C) (1)	28627-G	10/25/2024 11:42	
2500011-71	GCQ48	Soil/SET/	Grab	SoilMetsAES(21)	2500011071 (4°C) (1)	28629-C1	10/31/2024 13:16	
2500011-72	GCQ49	Soil/SET/	Grab	SoilMetsAES(21)	2500011072 (4°C) (1)	28629-RE2	10/31/2024 13:18	
2500011-73	GCQ50	Soil/SET/	Grab	SoilMetsAES(21)	2500011073 (4°C) (1)	28629-RE1	10/31/2024 13:20	
2500011-74	GCQ51	Soil/SET/	Grab	SoilMetsAES(21)	2500011074 (4°C) (1)	28629-C5	10/31/2024 13:22	
2500011-75	GCQ52	Soil/SET/	Grab	SoilMetsAES(21)	2500011075 (4°C) (1)	28629-C2	10/31/2024 13:24	
2500011-76	GCQ53	Soil/SET/	Grab	SoilMetsAES(21)	2500011076 (4°C) (1)	28629-DZ	10/31/2024 13:25	

Sample(s) to be used for Lab QC: 2500011-64 Tag 2500011064 - Special Instructions: Soil metals by ICPAES will be collected in 1 whirlpak or ziplock baggie for each sample, and will be enough for all analyses and the designated QCs=MS/MSDs at full volumes. EPA - Region 7 requesting that only As, Ba, Cd, Cr, Co & Pb soil metals by ICPAES analyses be analyzed/reported on all samples for this CASE and that %solids needed/required on all samples for this CASE, oil metals by ICPAES PT sample (with instructions & PT ID R03272404-31) will be included/packed/shipped with the above field samples. This case is shipped with case 51921 and will not include ice. The CLP lab should note the temperature on the case narrative and proceed with analysis.

Analysis Key: SoilMetsAES=SoilMetsby/CPAES

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
CLP Shipping & analysis	KATELYN ORIGIES Digitally signed by KATELYN ORIGIES Date: 2025.01.08 08:11:59 -05'00'			1-9-25 0940	FR Gun #1 Temp 5.4°C
					Temp blank Present
					Custody Seal intact


No: 7-010725-152111-0000

Lab: Alliance Technical Group LLC (ACE)

Lab Phone: (908) 789-8900

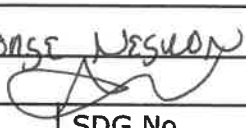
[illegible]**Samples Transferred From Chain of Custody #**

20

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
CLP Shipping & analysis	KATELYN ORTIGUES Digitally signed by KATELYN ORTIGUES Date: 2025.01.08 08:14:10 -0500			0840 1-9-25	IR Gun #1 Temp 5.4c
					Temp blank p/c
					CUS tody Sealing

Temp blank Present  
Custody Seal intact


FORM DC-1  
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC	Page <u>1</u> of <u>1</u>
Received By (Print Name) <u>Gongse Wenguan</u>	Log-in Date <b>1/9/2025</b>
Received By (Signature) 	
Case Number <b>51925</b>	SDG No. <b>GCQ38</b> MA No. <b>N/A</b>

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>817610443362</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>5.4</u> Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	<u>01/09/2025</u>
12. Time Received	<u>09:40</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	GCQ38	N/A	2500011061	Q1047-01	Intact
2	GCQ39	N/A	2500011062	Q1047-02	Intact
3	GCQ40	N/A	2500011063	Q1047-03	Intact
4	GCQ41	N/A	2500011064	Q1047-04	Intact
5	GCQ41D	N/A	2500011064	Q1047-05	Intact
6	GCQ41S	N/A	2500011064	Q1047-06	Intact
7	GCQ42	N/A	2500011065	Q1047-07	Intact
8	GCQ43	N/A	2500011066	Q1047-08	Intact
9	GCQ44	N/A	2500011067	Q1047-09	Intact
10	GCQ45	N/A	2500011068	Q1047-10	Intact
11	GCQ46	N/A	2500011069	Q1047-11	Intact
12	GCQ47	N/A	2500011070	Q1047-12	Intact
13	GCQ48	N/A	2500011071	Q1047-13	Intact
14	GCQ49	N/A	2500011072	Q1047-14	Intact
15	GCQ50	N/A	2500011073	Q1047-15	Intact
16	GCQ51	N/A	2500011074	Q1047-16	Intact
17	GCQ52	N/A	2500011075	Q1047-17	Intact
18	GCQ53	N/A	2500011076	Q1047-18	Intact
19	GCQ54	N/A	2500011077	Q1047-19	Intact
20	GCQ55	N/A	2500011078	Q1047-20	Intact
21	GCQ56	N/A	2500011079	Q1047-21	Intact
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

\* Contact SMO and attach record of resolution

Reviewed By <u></u>	Logbook No. <b>N/A</b>
Date <u>1/9/25</u>	Logbook Page No. <b>N/A</b>

FORM DC-2  
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	Alliance Technical Group, LLC		
LAB CODE	ACE		
CONTRACT NO.	68HERH20D0011		
CASE NO.	51925	SDG NO.	GCQ38
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:		CHECK	
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	4	✓	
4. CSF Inventory Sheet (DC-2)	5	7	✓	
5. SDG Narrative	8	9	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	10	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	31	✓	
9. Instrument raw data by instrument in analysis order	32	711	✓	

**Other Data**

10. Standard and Reagent Preparation Logs	712	868	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	869	870	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	871	891	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	892	892	✓	
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	✓	

- 23 . Extraction Logs for TCLP and SPLP
- 24 . Raw GPC Data
- 25 . Raw Florisil Data

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
NA	NA	✓	
NA	NA	✓	
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
- 27 . Instrument raw data by instrument in analysis order

NA	NA	✓	
NA	NA	✓	

#### Other Data

- 28 . Standard and Reagent Preparation Logs
- 29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks
- 30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks
- 31 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions
- 32 . Extraction Logs for TCLP and SPLP
- 33 . Raw GPC Data
- 34 . Raw Florisil Data

NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
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
- 36 . Instrument raw data by instrument in analysis order

NA	NA	✓	
NA	NA	✓	

#### Other Data

- 37 . Standard and Reagent Preparation Logs
- 38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks
- 39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks
- 40 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions
- 41 . Extraction Logs for TCLP and SPLP
- 42 . Raw GPC Data
- 43 . Raw Florisil Data

NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	

**Additional**

## 44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 1)

Sample Tags

Sample Log-In Sheet (Lab)

## 45. Misc. Shipping/Receiving Records (list all individual records)

46. Internal Lab Sample Transfer Records and Tracking Sheets  
(describe or list)47. Other Records and related Communication Logs  
(describe or list)

## 48. Comments:

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

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
893	893	✓	
NA	NA	✓	
894	895	✓	
NA	NA	✓	
896	896	✓	
NA	NA	✓	



**284 Sheffield Street  
Mountainside, NJ 07092**

## **SDG NARRATIVE**

**USEPA**

**SDG # GCQ38**

**CASE # 51925**

**CONTRACT # 68HERH20D0011**

**SOW# SFAM01.1**

**LAB NAME: Alliance Technical Group, LLC**

**LAB CODE: ACE**

**LAB ORDER ID # Q1047**

### **A. Number of Samples and Date of Receipt**

19 Soil samples were delivered to the laboratory intact on 01/09/2025.

### **B. Parameters**

Test requested for Metals CLP12 = Arsenic, Barium, Cadmium, Chromium, Cobalt, Lead.

### **C. Cooler Temp**

Indicator Bottle: Presence/Absence

Cooler: 5.4°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):

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

Where,

C = Instrument value in ppm (The average of all replicate exposures)

Vf = Final digestion volume (mL)





**284 Sheffield Street  
Mountainside, NJ 07092**

W = Initial aliquot amount (g) (Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

**Example Calculation For Sample GCQ38 For Arsenic :**

If C = 0.0670593 ppm

Vf = 100 ml

W = 1.23 g

S = 0.962 (96.2/100)

DF = 1

$$\text{Concentration (mg/kg)} = 0.0670593 \times \frac{100}{1.23 \times 0.962} \times 1$$

$$= 5.66733 \text{ mg/kg}$$

$$= 5.7 \text{ mg/kg (Reported Result with Signification)}$$

**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: 1/10/2025

OVENTEMP IN Celsius(°C): 107  
Time IN: 16:25  
In Date: 01/09/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103  
Time OUT: 08:25  
Out Date: 01/10/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID- OVEN

QC:LB134222

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
Q1047-01	GCQ38	1	1.11	8.76	9.87	9.54	96.2	
Q1047-02	GCQ39	2	1.15	8.30	9.45	8.55	89.2	
Q1047-03	GCQ40	3	1.18	8.56	9.74	9.47	96.8	
Q1047-04	GCQ41	4	1.15	8.36	9.51	9.4	98.7	
Q1047-05	GCQ41D	5	1.15	8.36	9.51	9.4	98.7	
Q1047-06	GCQ41S	6	1.15	8.36	9.51	9.4	98.7	
Q1047-07	GCQ42	7	1.18	8.62	9.8	9.68	98.6	
Q1047-08	GCQ43	8	1.16	8.70	9.86	9.25	93.0	
Q1047-09	GCQ44	9	1.18	8.50	9.68	9.15	93.8	
Q1047-10	GCQ45	10	1.17	8.60	9.77	9.26	94.1	
Q1047-11	GCQ46	11	1.19	8.50	9.69	8.97	91.5	
Q1047-12	GCQ47	12	1.14	8.78	9.92	9.34	93.4	
Q1047-13	GCQ48	13	1.15	8.43	9.58	8.98	92.9	
Q1047-14	GCQ49	14	1.18	8.35	9.53	8.91	92.6	
Q1047-15	GCQ50	15	1.17	8.61	9.78	9.59	97.8	
Q1047-16	GCQ51	16	1.18	8.66	9.84	9.19	92.5	
Q1047-17	GCQ52	17	1.19	8.78	9.97	9.38	93.3	
Q1047-18	GCQ53	18	1.19	8.53	9.72	9.04	92.0	
Q1047-19	GCQ54	19	1.17	8.52	9.69	9.04	92.4	
Q1047-20	GCQ55	20	1.17	8.35	9.52	8.8	91.4	
Q1047-21	GCQ56	21	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
Q1051-01	1-7-25	22	1.00	1.00	2.00	2.00	100.0	wipe sample

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

VB13422-16  
VB13422-16  
VB13422-16

**Date :** 01-09-2025 15:16:04

Date/Time 01-09-25 15:45  
Raw Sample Received by: SO WWC,  
Raw Sample Relinquished by: AP SW

**Raw Sample Relinquished by:**

VB134222-18

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %Q10047      WorkList ID : 186846      Department : Wet-Chemistry      Date : 01-09-2025 15:16:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1051-01	1-7-25	Solid	Percent Solids	Cool 4 deg C	PSEG03	N51	01/09/2025	Chemtech -SO

Date/Time 01-09-25 15:45  
Raw Sample Received by: SD WOC  
Raw Sample Relinquished by: SD WOC

Date/Time 01-09-25 16:30  
Raw Sample Received by: SD WOC  
Raw Sample Relinquished by: SD WOC