

## SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
 Lab Code: ACE Case No.: 51921 MA No.: \_\_\_\_\_ SDG No.: GCPF7  
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
GCPF7	Q1041-01	X			
GCPF8	Q1041-02	X			
GCPF9	Q1041-03	X			
GCPG0	Q1041-04	X			
GCPG0D	Q1041-05	X			
GCPG0S	Q1041-06	X			
GCPG1	Q1041-07	X			
GCPG2	Q1041-08	X			
GCPG3	Q1041-09	X			
GCPG4	Q1041-10	X			
GCPG5	Q1041-11	X			
GCPG6	Q1041-12	X			
GCPG7	Q1041-13	X			
GCPG8	Q1041-14	X			
GCPG9	Q1041-15	X			
GCPH0	Q1041-16	X			
GCPH1	Q1041-17	X			
GCPH2	Q1041-18	X			
GCPH3	Q1041-19	X			
GCPH4	Q1041-20	X			
GCPH5	Q1041-21	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: \_\_\_\_\_

68HERH20DD0011

SDG # GCPF7

## USEPA CLP Inorganics COC (LAB COPY)

DateShipped: 1/8/2025

CarrierName: FedEx

AirbillNo: 8176 1044 3362

## Region 7 SCRIBE COC Record

Case #: 51921

Project Code: KMA7K201/2500007

No: 7-010725-131535-0000

Lab: Alliance Technical Group LLC (ACE)

Lab Contact: Sample Receipt

Lab Phone: (908) 789-8900

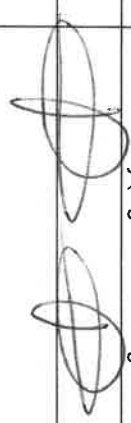
Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
2500007-20	GCPF7	Soil/SET/	Grab	SoilMeisAES(21)	2500007020 (4°C) (1)	4565-G	11/22/2024 09:11	
2500007-21	GCPF8	Soil/SET/	Grab	SoilMeisAES(21)	2500007021 (4°C) (1)	4565-LS	11/22/2024 09:09	
2500007-22	GCPF9	Soil/SET/	Grab	SoilMeisAES(21)	2500007022 (4°C) (1)	4565-RE	11/22/2024 09:07	
2500007-23	GCPG0	Soil/SET/	Grab	SoilMeisAES(21)	2500007023 (4°C) (1)	4565-SAND	11/22/2024 09:05	
2500007-24	GCPG1	Soil/SET/	Grab	SoilMeisAES(21)	2500007024 (4°C) (1)	4872-C1	11/25/2024 10:00	
2500007-25	GCPG2	Soil/SET/	Grab	SoilMeisAES(21)	2500007025 (4°C) (1)	4872-C2	11/25/2024 10:02	
2500007-26	GCPG3	Soil/SET/	Grab	SoilMeisAES(21)	2500007026 (4°C) (1)	4872-C3	11/25/2024 10:04	
2500007-27	GCPG4	Soil/SET/	Grab	SoilMeisAES(21)	2500007027 (4°C) (1)	4872-C4	11/25/2024 10:06	
2500007-28	GCPG5	Soil/SET/	Grab	SoilMeisAES(21)	2500007028 (4°C) (1)	4872-C5	11/25/2024 10:08	
2500007-29	GCPG6	Soil/SET/	Grab	SoilMeisAES(21)	2500007029 (4°C) (1)	4872-C6	11/25/2024 10:10	
2500007-30	GCPG7	Soil/SET/	Grab	SoilMeisAES(21)	2500007030 (4°C) (1)	4872-DW	11/25/2024 10:12	
2500007-31	GCPG8	Soil/SET/	Grab	SoilMeisAES(21)	2500007031 (4°C) (1)	4872-FF	11/25/2024 10:14	
2500007-32	GCPG9	Soil/SET/	Grab	SoilMeisAES(21)	2500007032 (4°C) (1)	4872-SP	11/25/2024 10:16	
2500007-33	GCPH0	Soil/SET/	Grab	SoilMeisAES(21)	2500007033 (4°C) (1)	5327-C1	11/18/2024 13:55	
2500007-34	GCPH1	Soil/SET/	Grab	SoilMeisAES(21)	2500007034 (4°C) (1)	5327-C2	11/18/2024 13:57	
2500007-35	GCPH2	Soil/SET/	Grab	SoilMeisAES(21)	2500007035 (4°C) (1)	5327-C3	11/18/2024 13:59	
2500007-36	GCPH3	Soil/SET/	Grab	SoilMeisAES(21)	2500007036 (4°C) (1)	5327-C4	11/18/2024 14:01	
2500007-37	GCPH4	Soil/SET/	Grab	SoilMeisAES(21)	2500007037 (4°C) (1)	5327-C5	11/18/2024 14:03	
2500007-38	GCPH5	Soil/SET/	Grab	SoilMeisAES(21)	2500007038 (4°C) (1)	5327-C6	11/18/2024 14:05	

Sample(s) to be used for Lab QC: 2500007-23 Tag 2500007023 - 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 R03272403-24) will be included/packed/shipped with the above field samples. This case is shipped with case 51925 and will not include ice. The CLP lab should note the temperature on the case narrative and proceed with analysis.

Analysis Key: SoilMeisAES=SoilMeisbyICPAES

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 07:54:14 -0800			0940 1-9-25	IR Gun #1 Temp 5.8°C
					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>GORSE</u>		Log-in Date <b>1/9/2025</b>
Received By (Signature) <u>[Signature]</u>		
Case Number <b>51921</b>	SDG No. <b>GCPF7</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>5.8</u> Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	<u>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	GCPF7	N/A	2500007020	Q1041-01	Intact
2	GCPF8	N/A	2500007021	Q1041-02	Intact
3	GCPF9	N/A	2500007022	Q1041-03	Intact
4	GCPG0	N/A	2500007023	Q1041-04	Intact
5	GCPG0D	N/A	2500007023	Q1041-05	Intact
6	GCPG0S	N/A	2500007023	Q1041-06	Intact
7	GCPG1	N/A	2500007024	Q1041-07	Intact
8	GCPG2	N/A	2500007025	Q1041-08	Intact
9	GCPG3	N/A	2500007026	Q1041-09	Intact
10	GCPG4	N/A	2500007027	Q1041-10	Intact
11	GCPG5	N/A	2500007028	Q1041-11	Intact
12	GCPG6	N/A	2500007029	Q1041-12	Intact
13	GCPG7	N/A	2500007030	Q1041-13	Intact
14	GCPG8	N/A	2500007031	Q1041-14	Intact
15	GCPG9	N/A	2500007032	Q1041-15	Intact
16	GCPH0	N/A	2500007033	Q1041-16	Intact
17	GCPH1	N/A	2500007034	Q1041-17	Intact
18	GCPH2	N/A	2500007035	Q1041-18	Intact
19	GCPH3	N/A	2500007036	Q1041-19	Intact
20	GCPH4	N/A	2500007037	Q1041-20	Intact
21	GCPH5	N/A	2500007038	Q1041-21	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>[Signature]</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.	51921	SDG NO.	GCPF7
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	2	✓	
3. Sample Log-In Sheet (DC-1)	3	3	✓	
4. CSF Inventory Sheet (DC-2)	4	6	✓	
5. SDG Narrative	7	8	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	9	10	✓	
<b>Analysis Forms and Data (ICP-AES)</b>				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	11	29	✓	
9. Instrument raw data by instrument in analysis order	30	177	✓	
<b>Other Data</b>				
10. Standard and Reagent Preparation Logs	178	334	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	335	336	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	337	348	✓	
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	✓	
<b>Analysis Forms and Data (ICP-MS)</b>				
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	✓	
<b>Other Data</b>				
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:		CHECK	
	FROM	TO	LAB	REGION
23 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
24 . Raw GPC Data	NA	NA	✓	
25 . Raw Florisil Data	NA	NA	✓	

#### Analysis Forms and Data (Mercury)

26 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27 . Instrument raw data by instrument in analysis order	NA	NA	✓	

#### Other Data

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

#### Analysis Forms and Data (Cyanide)

35 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36 . Instrument raw data by instrument in analysis order	NA	NA	✓	

#### Other Data

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

**Additional**

## 44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 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

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
349	349	✓	
NA	NA	✓	
350	351	✓	
NA	NA	✓	
352	352	✓	
NA	NA	✓	



**284 Sheffield Street  
Mountainside, NJ 07092**

## **SDG NARRATIVE**

**USEPA**

**SDG # GCPF7**

**CASE # 51921**

**CONTRACT # 68HERH20D0011**

**SOW# SFAM01.1**

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

**LAB CODE: ACE**

**LAB ORDER ID # Q1041**

### **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: 5.8°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 GCPF7 For Arsenic :**

If C = 0.0550547 ppm

Vf = 100 ml

W = 1.25 g

S = 0.971(97.1/100)

DF = 1

$$\text{Concentration (mg/kg)} = 0.0550547 \times \frac{100}{1.25 \times 0.971} \times 1$$

$$= 4.535917 \text{ mg/kg}$$

$$= 4.5 \text{ mg/kg (Reported Result with Signification)}$$

**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 except for Chromium. 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: 13:10  
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: 07:37  
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:LB134211

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
Q1041-01	GCPF7	1	1.18	8.34	9.52	9.28	97.1	
Q1041-02	GCPF8	2	1.15	8.41	9.56	8.48	87.2	
Q1041-03	GCPF9	3	1.17	8.46	9.63	8.98	92.3	
Q1041-04	GCPG0	4	1.18	8.71	9.89	9.85	99.5	
Q1041-05	GCPG0D	5	1.18	8.71	9.89	9.85	99.5	
Q1041-06	GCPG0S	6	1.18	8.71	9.89	9.85	99.5	
Q1041-07	GCPG1	7	1.16	8.44	9.6	9.33	96.8	
Q1041-08	GCPG2	8	1.19	8.45	9.64	9.33	96.3	
Q1041-09	GCPG3	9	1.17	8.75	9.92	9.17	91.4	
Q1041-10	GCPG4	10	1.18	8.38	9.56	9.07	94.2	
Q1041-11	GCPG5	11	1.15	8.59	9.74	9.33	95.2	
Q1041-12	GCPG6	12	1.15	8.48	9.63	8.52	86.9	
Q1041-13	GCPG7	13	1.17	8.81	9.98	9.9	99.1	
Q1041-14	GCPG8	14	1.16	8.80	9.96	9.65	96.5	
Q1041-15	GCPG9	15	1.16	8.53	9.69	9.67	99.8	
Q1041-16	GCPH0	16	1.18	8.50	9.68	9.41	96.8	
Q1041-17	GCPH1	17	1.17	8.37	9.54	9.36	97.8	
Q1041-18	GCPH2	18	1.16	8.35	9.51	9.3	97.5	
Q1041-19	GCPH3	19	1.14	8.69	9.83	9.67	98.2	
Q1041-20	GCPH4	20	1.16	8.41	9.57	9.41	98.1	
Q1041-21	GCPH5	21	1.17	8.57	9.74	9.57	98.0	

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

# WORKLIST(Hardcopy Internal Chain)

134211

WorkList Name : %Q1041

WorkList ID : 186835

Department : Wet-Chemistry

Date : 01-09-2025 11:41:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1041-01	GCPF7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1041-02	GCPF8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1041-03	GCPF9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1041-04	GCPG0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1041-05	GCPG0D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1041-06	GCPG0S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1041-07	GCPG1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1041-08	GCPG2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1041-09	GCPG3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1041-10	GCPG4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1041-11	GCPG5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1041-12	GCPG6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1041-13	GCPG7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1041-14	GCPG8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1041-15	GCPG9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1041-16	GCPH0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1041-17	GCPH1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1041-18	GCPH2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1041-19	GCPH3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1041-20	GCPH4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1041-21	GCPH5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO

Date/Time 01-09-25 12:37  
 Raw Sample Received by: JG WOC  
 Raw Sample Relinquished by: JTCsm

Date/Time 01-09-25 13:15  
 Raw Sample Received by: JTCsm  
 Raw Sample Relinquished by: JG WOC