

## SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51822 MA No.: \_\_\_\_\_ SDG No.: MH2GW5  
SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
<u>MH2GW5</u>	<u>P4955-01</u>	<u>          </u>	<u>X</u>	<u>          </u>	<u>          </u>
<u>MH2GW6</u>	<u>P4955-02</u>	<u>          </u>	<u>X</u>	<u>          </u>	<u>          </u>
<u>MH2GW7</u>	<u>P4955-03</u>	<u>          </u>	<u>X</u>	<u>          </u>	<u>          </u>
<u>MH2GW8</u>	<u>P4955-04</u>	<u>          </u>	<u>X</u>	<u>          </u>	<u>          </u>
<u>MH2GW8D</u>	<u>P4955-05</u>	<u>          </u>	<u>X</u>	<u>          </u>	<u>          </u>
<u>MH2GW8S</u>	<u>P4955-06</u>	<u>          </u>	<u>X</u>	<u>          </u>	<u>          </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: \_\_\_\_\_

AirbiilNo: 7701 3347 7550

Cooler #: 2

**Lab: Alliance Technical Group LLC**

**Lab Phone: 908-789-8900**


[illegible]

Sample(s) to be used for Lab QC: D0292-BM Tag 24475 - Special Instructions: Please return cooler

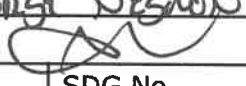
**Shipment for Case Complete? N**

### Samples Transferred From Chain of Custody #

Analysis Key: ICP/MS=CLP TAL Total Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	John Peterson FWT	11/21/24 1415		11-22-24 0715	2 GC ML GIV #1
					custody seals intact
					Temp OK: assessed


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>George NESMON</u>		Log-in Date <b>11/22/2024</b>
Received By (Signature) 		
Case Number <b>51822</b>	SDG No. <b>MH2GW5</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>770133477550</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.2</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>11/22/2024</u>
12. Time Received	<u>07:45</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH2GW5	N/A	24472	P4955-01	Intact
2	MH2GW6	N/A	24473	P4955-02	Intact
3	MH2GW7	N/A	24474	P4955-03	Intact
4	MH2GW8	N/A	24475	P4955-04	Intact
5	MH2GW8D	N/A	24475	P4955-05	Intact
6	MH2GW8S	N/A	24475	P4955-06	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 <u></u>	Logbook No. <b>N/A</b>
Date <u>11/22/24</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.	51822	SDG NO.	MH2GW5
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	9	✓	
6. Communication Logs	10	14	✓	
7. Percent Solids Log	NA	NA	✓	

**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	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	

**Other Data**

10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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	15	18	✓	
18. Instrument raw data by instrument in analysis order	19	585	✓	

**Other Data**

19. Standard and Reagent Preparation Logs	586	723	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	724	725	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	726	730	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	<u>PAGE NOS:</u>		<u>CHECK</u>	
	<u>FROM</u>	<u>TO</u>	<u>LAB</u>	<u>REGION</u>
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  
(Print Name & Title)

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
731	731	✓	
NA	NA	✓	
732	732	✓	
NA	NA	✓	
733	733	✓	
NA	NA	✓	



**284 Sheffield Street  
Mountainside, NJ 07092**

## **SDG NARRATIVE**

**USEPA**

**SDG # MH2GW5**

**CASE # 51822**

**CONTRACT # 68HERH20D0011**

**SOW# SFAM01.1**

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

**LAB CODE: ACE**

**LAB ORDER ID # P4955**

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

04 Soil samples was delivered to the laboratory intact on 11/22/2024

### **B. Parameters**

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: 2.2°C

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

Issue 1 : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The routine analyses in this Case are scheduled with a 21-day TAT, but the received COC indicates a 14-day TAT. Please advise on how the laboratory may proceed.

### **E. Corrective Action taken for above:**

Resolution 1 : To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, the laboratory should proceed and have all soil samples analyzed as a 14-day TAT. 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.

#### **G. Calculation:**

##### **Calculation for ICP-MS Soil Sample:**

Conversion of Results from  $\mu\text{g/L}$  or ppb to mg/kg :

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

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 MH2GW5 For Antimony:**

If C = 14.99 ppb

Vf = 500 ml

W = 1.13 g

S = 1.0(100/100)

DF = 1

$$\text{Concentration (mg/kg)} = 14.99 \times \frac{500}{1.13 \times 1.0} \times 1 / 1000$$

$$= 6.63274 \text{ mg/kg}$$

$$= 6.6 \text{ mg/kg (Reported Result with Signification)}$$

#### **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. Duplicate sample did meet. Serial Dilution did meet requirements.

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.





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Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
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:** Hairston, Miles (NE) <Miles.Hairston@gdit.com>  
**Sent:** Tuesday, November 12, 2024 9:31 AM  
**To:** Sohil Jodhani; Deepak Parmar; Mohammad Ahmed  
**Cc:** Goodrich.Donald@epa.gov; mark.wood@pwt.com  
**Subject:** Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC | FINAL  
**Attachments:** SKM\_95824111109510.pdf; 51822-ASR.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Good morning,

Please see the resolution below.

Issue: The routine analyses in this Case are scheduled with a 21-day TAT, but the received COC indicates a 14-day TAT. Please advise on how the laboratory may proceed.

Resolution: Per Region 8, the laboratory should proceed and have all soil samples analyzed as a 14-day TAT. 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 1, 8, 7, and 9

Work Phone: +1 571-454-0346  
[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)  
15036 Conference Center Drive  
Chantilly, VA 20151  
[www.gdit.com](http://www.gdit.com)

**Leave alert: 11/11/2024**

**GENERAL DYNAMICS**  
Aerion Technologies

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**From:** Goodrich, Donald <Goodrich.Donald@epa.gov>  
**Sent:** Tuesday, November 12, 2024 9:08 AM  
**To:** Hairston, Miles (NE) <Miles.Hairston@gdit.com>  
**Subject:** RE: Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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Good morning Miles,

Yes, please proceed and have all soil samples analyzed as 14-day TAT for this case.

Thanks,  
Don

*Don Goodrich*  
EPA Region 8  
8LSASD-LSB | 5247  
303-905-4024 (cell) | [goodrich.donald@epa.gov](mailto:goodrich.donald@epa.gov)

---

**From:** Hairston, Miles (NE) <[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)>  
**Sent:** Monday, November 11, 2024 9:27 AM  
**To:** Goodrich, Donald <[Goodrich.Donald@epa.gov](mailto:Goodrich.Donald@epa.gov)>  
**Subject:** RE: Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good morning,

Would the Region please confirm if the laboratory should proceed with a 14-day TAT for all soils in Case 51822 as indicated in the below emails?

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](mailto:casey.shaeffer@gdit.com)

15036 Conference Center Drive  
Chantilly, VA 20151  
[www.gdit.com](http://www.gdit.com)



**Leave Alert: November 19, 2024**

---

**From:** Mark R. Wood <[mark.wood@pwt.com](mailto:mark.wood@pwt.com)>  
**Sent:** Monday, November 11, 2024 11:15 AM  
**To:** Hairston, Miles (NE) <[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)>; Goodrich, Donald <[goodrich.donald@epa.gov](mailto:goodrich.donald@epa.gov)>  
**Subject:** RE: Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

**This Message Is From an External Sender**

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Yes, that is correct.

Mark Wood, PG  
Senior Geologist  
Pacific Western Technology, LTD  
3000 Youngfield Street, Wheat Ridge, CO 80215  
(O) 303-274-5400 x1014 | (c) 303-994-3853

---

**From:** Shaeffer, Casey <[Casey.Shaeffer@gdit.com](mailto:Casey.Shaeffer@gdit.com)> **On Behalf Of** Hairston, Miles (NE)  
**Sent:** Monday, November 11, 2024 8:51 AM  
**To:** Mark R. Wood <[mark.wood@pwt.com](mailto:mark.wood@pwt.com)>; Hairston, Miles (NE) <[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)>; Goodrich, Donald <[goodrich.donald@epa.gov](mailto:goodrich.donald@epa.gov)>  
**Subject:** RE: Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Good morning,

Thank you for your response. To confirm, the routine soil samples and the soil samples under MA 3105.0 should all be analyzed under a 14-day TAT?

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](mailto:casey.shaeffer@gdit.com)  
15036 Conference Center Drive  
Chantilly, VA 20151

Leave Alert: November 19, 2024

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**From:** Mark R. Wood <[mark.wood@pwt.com](mailto:mark.wood@pwt.com)>  
**Sent:** Monday, November 11, 2024 10:40 AM  
**To:** Hairston, Miles (NE) <[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)>; Goodrich, Donald <[goodrich.donald@epa.gov](mailto:goodrich.donald@epa.gov)>  
**Subject:** RE: Region 08 | Case 51822 | 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.

Hi Miles,  
The dust/soil samples should be for 14 day TAT. I missed this reviewing the case 51822.  
Thank you,  
Mark Wood, PG  
Senior Geologist  
Pacific Western Technology, LTD  
3000 Youngfield Street, Wheat Ridge, CO 80215  
(O) 303-274-5400 x1014 | (c) 303-994-3853

---

**From:** Hairston, Miles (NE) <[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)>  
**Sent:** Monday, November 11, 2024 8:36 AM  
**To:** Goodrich, Donald <[goodrich.donald@epa.gov](mailto:goodrich.donald@epa.gov)>  
**Cc:** Mark R. Wood <[mark.wood@pwt.com](mailto:mark.wood@pwt.com)>  
**Subject:** Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Good morning,

Please see the below issue from ACE.

Issue: The routine analyses in this Case are scheduled with a 21-day TAT, but the received COC indicates a 14-day TAT. 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](mailto:casey.shaeffer@gdit.com)  
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**GENERAL DYNAMICS**  
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**Leave Alert: November 19, 2024**

---

**From:** Deepak Parmar <[Deepak.Parmar@alliancetg.com](mailto:Deepak.Parmar@alliancetg.com)>

**Sent:** Monday, November 11, 2024 10:09 AM

**To:** Hairston, Miles (NE) <[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)>

**Cc:** Sohil Jodhani <[Sohil.Jodhani@AllianceTG.com](mailto:Sohil.Jodhani@AllianceTG.com)>

**Subject:** Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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Please use caution with links, attachments, and any requests for credentials.

Good morning,

As per ASR case 51822 is 21 days TAT for soil sample without MA but all COC received today for this case mentioned 14 days TAT there for lab would like to confirm they should proceed with analysis ?

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](http://www.alliancetg.com)

