# SDG COVER PAGE

Lab Name: Allia	ance Technical Group, LLC	Contract	: 68HERH20	D0011	
Lab Code: ACE	Case No.: 51817	MA No.:	3225.1,322	6.1	SDG No.: MYE4R9
SOW No. : SFAMO	)1.1				
EPA Sample No.	Lab Sample Id	ICP-AES	Analysis ICP-MS	Method Mercury	Cyanide
MYE4R9	P4527-01	X	X		
MYE4R9D	P4527-02	X	X		
MYE4R9S	P4527-03	X	X		
contract, both to in the SDG Narrat of the data conta submitted has bee	his data package is in complechnically and for completen tive. All edits and manual i ained in this hardcopy Complen authorized by the Laborat following signature.	ess, for ot ntegrations ete SDG Fil	her than th have been e and in th	e conditions peer-reviewe e electronic	detailed d. Release data
Signature:		Name	e:		
Date:		Tit	_e:		

Page 1 of 3

USEPA CLP COC (LAB COPY)
DateShipped: 10/22/2024

CarrierName: FedEx AirbillNo: 7793 0492 3458

CHAIN OF CUSTODY RECORD

No: 9-101424-084501-0140

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-3151

Case #: 51817 Cooler #: EPA Cooler 06

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll.	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
90029-S-0005-01	MYE4Q2	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8090 (None) (1)	90029-S-0005	04/24/2024 09:25	
90029-S-0006-01	MYE4Q3	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8091 (None) (1)	90029-S-0006	04/24/2024 09:51	
90029-S-0007-01	MYE4Q4	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8092 (None) (1)	90029-S-0007	04/24/2024 09:14	
90029-S-0007-02	MYE4Q5	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8093 (None) (1)	90029-S-0007	04/24/2024 09:30	
90029-5-0008-01	MYE4Q6	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8094 (None) (1)	90029-S-0008	04/24/2024 09:08	
90029-S-0009-01	MYE4Q7	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8095 (None) (1)	90029-S-0009	04/24/2024 08:56	
90029-S-0010-01	MYE4Q8	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8096 (None) (1)	90029-S-0010	04/24/2024 09:16	
90029-S-0011-01	MYE4Q9	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8097 (None) (1)	90029-S-0011	04/24/2024 09:23	
90029-N-0006-01	MYE4R0	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8098 (None) (1)	90029-N-0006	04/24/2024 15:39	
90029-N-0007-03	MYE4R1	Soil/ ERT	Grab	JCP-AES and ICP-MS(21)	9-8099 (None) (1)	90029-N-0007	04/24/2024 14:59	
90029-N-0008-01	MYE4R2	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8100 (None) (1)	90029-N-0008	04/24/2024 15:03	
90029-N-0009-01	MYE4R3	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8101 (None) (1)	90029-N-0009	04/24/2024 15:06	
90029-N-0010-01	MYE4R4	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8102 (None) (1)	90029-N-0010	04/24/2024 15:19	
90029-N-0011-01	MYE4R5	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8103 (None) (1)	90029-N-0011	04/24/2024 14:52	
90029-N-0012-01	MYE4R6	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8104 (None) (1)	90029-N-0012	04/24/2024 14:57	
90029-O-0001-01	MYE4R7	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8105 (None) (1)	90029-0-0001	04/24/2024 14:36	
90029-0-0002-01	MYE4R8	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8106 (None) (1)	90029-0-0002	04/24/2024 14:44	
90029-0-0003-01	MYE4R9	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8107 (None) (1)	90029-0-0003	04/24/2024 14:26	C
90029-0-0003-02	MYE4S0	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8108 (None) (1)	90029-0-0003	04/24/2024 14:27	

Analysis Key: ICP-AES and ICP-MS=Metals ICP-AES and ICP-MS

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #
057945-46

		Items/Reason
	enil Mar R9	Items/Reason Relinquished by (Signature and Organization)
	12/8/24	Date/Time
(4	2	Received by (
	(a)	Received by (Signature and Organization)
	10-23-24	Date/Time
Custody Seal Those	IR-Gan# ( 20.0	Sample Condition Upon Receip
	Custody Seal In	Color 10-23-24 IR-Cont

# FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group,	/ \	Page_1_of
Received By (Print Name)	ara Vere	Log-in Date 10/23/2024
Received By (Signature)		
Case Number 51817	SDG No. MYE4R9	MA No. 3225.1,3226.1

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	057945-46
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and	779304923458
Shipping Container ID No.	1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	20.0 Degree C
8. Sample Condition	Intact
9. Sample Tags	Absent
Sample Tag Numbers	Listed on Traffic Report
10 Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/23/2024
12.Time Received	18:07

			Correspondi	ng	
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned	Remarks: Condition of Sample Shipment, etc.
1	MYE4R9	N/A	9-8107	P4527-01	Intact
2	MYE4R9D	N/A	9-8107	P4527-02	Intact
3	MYE4R9S	N/A	9-8107	P4527-03	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
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	W,	Logbook No.	N/A
Date	10/23/24	Logbook Page No.	N/A

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

LAB NAME	Alliance Technical	l Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51817	SDG NO.	MYE4R9	
MA NO.	3225.1,3226.1	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 Note   CHECK   FROM TO   LAB   REGION					
1. SDG Cover Page		PAGE	NOs:	CH	ECK
2. Traffic Report/Chain of Custody Record(s)  3. Sample Log-In Sheet (DC-1)  4. CSF Inventory Sheet (DC-2)  5. SDG Narrative  7. 16 ✓  6. Communication Logs  7. Percent Solids Log  8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory OC as applicable  9. Instrument raw data by instrument in analysis order  8. Standard and Reagent Preparation Logs  10. Original Preparation and Cleanup forms or copies of Preparation and d47 d48 ✓ Cleanup Loghocks 11. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample 14. Extraction Logs for TCLP and SPLP  16. Raw GPC Data 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory OC as applicable  18. Instrument Logbooks 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory OC as applicable 18. Instrument raw data by instrument in analysis order  19. Standard and Reagent Preparation Logs 20. Original Preparation and Cleanup forms or copies of Preparation and late 8 1499 ✓ Cleanup Logbooks 21. Original Preparation and Cleanup forms or copies of Preparation and late 8 1499 ✓ Cleanup Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V		FROM	TO	LAB	REGION
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4	2. Traffic Report/Chain of Custody Record(s)	2	2	<b>✓</b>	
5. SDG Narrative 7 16	3. Sample Log-In Sheet (DC-1)	3	3	<b>-</b> ✓	
6. Communication Logs 7. Percent Solids Log 17 18 ✓  Analysis Forms and Data (ICP-AES)  8. Sample Analysis Data Forms (IA-OR, IB-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order  20 296 ✓  Other Data 10. Original Preparation and Cleanup forms or copies of Preparation and 447 448 ✓ Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or 449 456 ✓ Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓ Instructions 14. Extraction Logs for TCLP and SPLP NA NA ✓  15. Raw GPC Data NA NA ✓  Analysis Forms and Data (ICP-MS)  17. Sample Analysis Data Forms (IA-OR, IB-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order  20. Original Preparation and Cleanup forms or copies of Preparation and 1488 1489 ✓ Cleanup Logbooks 10. Original Preparation and Cleanup forms or copies of Preparation and 1488 1489 ✓ Cleanup Logbooks 10. Original Preparation and Cleanup forms or copies of Preparation and 1488 1489 ✓ 10. Original Preparation and Cleanup forms or copies of Preparation and 1488 1489 ✓ 10. Original Preparation and Cleanup forms or copies of Preparation and 1488 1489 ✓ 11. Original Analysis or Instrument Run forms or copies of Analysis or 11490 1497 ✓ 11. Instrument Logbooks 12. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	4. CSF Inventory Sheet (DC-2)	4	6	<b>√</b>	
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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 9. Instrument raw data by instrument in analysis order 20 296 ✓  Other Data  10. Standard and Reagent Preparation Logs 297 446 ✓ 11. Original Preparation and Cleanup forms or copies of Preparation and 447 448 ✓ 12. Original Analysis or Instrument Run forms or copies of Analysis or 449 456 ✓ 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓ Instructions 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 18. Instrument raw data by instrument in analysis order 458 1342 ✓  Other Data  19. Standard and Reagent Preparation Logs 1343 1487 ✓ Cleanup Logbooks 1490 1497 ✓ Instrument Logbooks 1490 1497 1490 1497 ✓ Instrument Logbooks 1490 1497 1490 1497 ✓ Instrument Logbooks 1490 1497 1490 1497 1490 1490 1490 1490 1490 1490 1490 1490	6. Communication Logs	NA	NA	✓	
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10 . Standard and Reagent Preparation Logs  297 446		20	296	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks  12. Original Analysis or Instrument Run forms or copies of Analysis or 449 456  Instrument Logbooks  13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample  14. Extraction Logs for TCLP and SPLP  15. Raw GPC Data  16. Raw Florisil Data  17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable  18. Instrument raw data by instrument in analysis order  19. Standard and Reagent Preparation Logs  10. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks  11. Original Analysis or Instrument Run forms or copies of Analysis or 1490 1497  Instrument Logbooks  22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample  NA NA V	Other Data				
Cleanup Logbooks  12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks  13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	10 . Standard and Reagent Preparation Logs	297	446	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks  13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample  14 . Extraction Logs for TCLP and SPLP  15 . Raw GPC Data  16 . Raw Florisil Data  17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable  18 . Instrument raw data by instrument in analysis order  19 . Standard and Reagent Preparation Logs  19 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks  21 . Original Analysis or Instrument Run forms or copies of Analysis or 1490 1497   Instrument Logbooks  22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample  NA NA V		447	448	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions  14. Extraction Logs for TCLP and SPLP  NA NA V  15. Raw GPC Data  NA NA NA V  16. Raw Florisil Data  NA NA NA V  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 18. Instrument raw data by instrument in analysis order  458 1342 ✓  Other Data  19. Standard and Reagent Preparation Logs  1343 1487 ✓  20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample  NA NA ✓	12. Original Analysis or Instrument Run forms or copies of Analysis or	449	456		
15. Raw GPC Data  NA NA V  16. Raw Florisil Data  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 18. Instrument raw data by instrument in analysis order  Other Data  19. Standard and Reagent Preparation Logs  1343 1487 V  20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample  NA NA V	13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	<b>✓</b>	
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19. Standard and Reagent Preparation Logs  20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks  21. Original Analysis or Instrument Run forms or copies of Analysis or 1490 1497 ✓ Instrument Logbooks  22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample  NA NA ✓		458	1342		
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Cleanup Logbooks  21. Original Analysis or Instrument Run forms or copies of Analysis or 1490 1497  Instrument Logbooks  22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample  NA NA ✓	19. Standard and Reagent Preparation Logs	1343	1487	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or 1490 1497 ✓ Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓		1488	1489	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA	21. Original Analysis or Instrument Run forms or copies of Analysis or	1490	1497		
	22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	<u>✓</u>	

	PAGE 1	NOs:	СН	ECK
	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	NA	NA		
or sample analysis, laboratory QC as applicable 27. Instrument raw data by instrument in analysis order	NA .	NA	<b>✓</b>	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	<b>✓</b>	
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	NA	NA		
Instrument Logbooks 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
Instructions 32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33 . Raw GPC Data	NA	NA	<b>√</b>	
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	NA	NA	✓	
or sample analysis, laboratory QC as applicable 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	NA	NA	<b>✓</b>	
Cleanup Logbooks 39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
Instrument Logbooks 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA_	NA	✓	
Instructions 41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42 . Raw GPC Data	NA	NA	<b>✓</b>	·
43 . Raw Florisil Data	NA	NA	✓	

			PAGE	NOs:	CHECK	
			FROM	TO	LAB	REGION
Additional						
44. EPA Ship	ping/Receiving Documents					
Airbill	(No. of Shipments)		1498	1498	✓	
Sample T	ags		NA	NA	✓	
Sample L	og-In Sheet (Lab)		1499	1499	✓	
45. Misc. Sh	ipping/Receiving Records(list al	l individual records)				
			NA	NA		
46. Internal	Lab Sample Transfer Records and	Tracking Sheets				
(describ	e or list)					
			1500	1501		
	cords and related Communication	Logs				
(describ	e or list)		NA	NA		
					-	<u> </u>
48. Comments	:					
Completed by (CLP Lab)	y:					
(CLF Lab)	(Signature)	Nimisha Pandya, Do (Print Name & Tit		Officer	(Da	te)
Audited by:	(======================================	(222110 210110 W 120	,		, Σα	/
(EPA)						
	(Signature)	(Print Name & Tit	le)		(Da	te)



### **SDG NARRATIVE**

USEPA
SDG # MYE4R9
CASE # 51817
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4527
MODIFIED ANALYSIS #3225.1, 3226.1

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

01 Soil sample was delivered to the laboratory intact on 10/23/2024.

### **B.** Parameters

Test requested for Metals CLP FULL = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

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

### C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 20.0°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.

### 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.

### F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.



## 284 Sheffield Street Mountainside, NJ 07092

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):

Concentration (mg/kg) = 
$$C \times Vf \times VF$$
  
W x S

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 MYE4R9 For Antimony:**

If 
$$C = 0.0121194 \text{ ppm}$$

Vf = 100 ml

W = 1.24g

S = 0.967(96.7/100)

DF = 2

Concentration (mg/kg) = 
$$0.0121194 \text{ x} \frac{100}{1.24 \text{ x } 0.967} \text{x } 2$$

= 2.02144 mg/kg

= 2.0 mg/kg (Reported Result with Signification)

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

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

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

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)



# Mountainside, NJ 07092

DF = Dilution Factor

### **Example Calculation For Sample MYE4R9 For Antimony:**

If C = 2.97 ppb 
$$Vf = 500 \text{ ml}$$

$$W = 1.24 \text{ g}$$

$$S = 0.967(96.7/100)$$

$$DF = 1$$
Concentration (mg/kg) = 2.97 x  $\frac{500}{1.24 \times 0.967}$  x 1 / 1000   
= 1.23844 mg/kg   
= 1.2 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 (MYE4R9SRE) did meet requirements except for Arsenic, Lead, Silver. Duplicate sample did meet requirements. 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.

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



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Mountainsiac, 115 07072					
Copper	45Sc				
Lead	209Bi				
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				

Date: 09/04/2024	MA: 3225.0	<b>Title:</b> ICP-MS with Modified Preparation Method and Analysis of Soils with Additional Laboratory QC
Method Source: SFAM01.1	Method: ICP-MS	Laboratory QC

Matrix: Soil/Sediment

### **Summary of Modification**

The purpose of this modified analysis is to prepare samples by EPA Draft Method 3050C (see below) with additional modified LCS and Matrix Spikes and analyze for the scheduled target analytes by ICP-MS. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

### I. Analyte Modifications

Not applicable

### II. Calibration and QC Requirements

Not applicable

The Laboratory shall:

- Use the Method Detection Limits (MDLs) determined for routine soil analyses (i.e., Method 200.8) to report the results for these analyses. The Laboratory is NOT required to perform an MDL study for Draft Method 3050C.
- Prepare and analyze an additional Laboratory Control Sample (LCS) spiked at the CRQL. Percent Recovery limits do NOT apply to this LCS and no corrective actions are required.
- Prepare a Matrix Spike spiked at three times the levels specified in the SOW.
- Prepare and analyze an additional Matrix Spike sample spiked at five times the levels specified for this Modified Analysis (i.e., 15x the levels specified in the SOW).
- Post-Digestion Spike requirements apply to the 5x Matrix Spike only.
- Post-Digestion Spike corrective actions apply to Sb.

### **III. Preparation and Method Modifications**

Not applicable

- Prepare and analyze the sample by EPA Draft Method 3050C as follows:
  - $\circ$  Mix sample thoroughly and transfer 1.00 1.50 g to a digestion vessel.
  - $\circ$  Add 10 mL 1:1 HNO<sub>3</sub> and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10 -15 minutes.
  - Add 5 mL concentrated HNO₃ and reflux for 30 minutes at 95°C (±3°C), repeat until digestion complete.
  - Concentrate sample to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C).
  - $\circ$  Cool sample, add 2mL water and 3 mL 30% H<sub>2</sub>O<sub>2</sub>. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H<sub>2</sub>O<sub>2</sub> until effervescence is minimal.
  - o Dilute to 100 mL with water, centrifuge or filter as necessary prior to analysis.
- The same sample extracts can be used for ICP-AES analysis. Separate Matrix Spikes and LCS will need to be prepared for both ICP-AES and ICP-MS analyses.
- Analyze the samples starting at an initial 5x dilution. Subsequently, dilute samples as necessary to bring the analyte concentrations within the calibration range of the instrument per the SOW.
- Method Blanks, both LCSs, and all instrument QC are to be analyzed undiluted.

### **IV. Special Reporting Requirements**

Not applicable

- Ensure the SDG Narrative is updated as stated in the SOW, including any technical and
  administrative problems encountered and the resolution or corrective actions taken. These
  problems may include interference problems encountered during analysis, dilutions, re-analyses
  and/or re-preparations performed, and problems with the analysis of samples. Also include a
  discussion of any SOW Modified Analyses, including a copy of the approved modification form
  with the SDG Narrative.
- Initial analysis data are reported with a dilution factor of 1.0 and a final volume of 500 mL, per the SOW.
- Report the additional LCS as "LCSD" in the raw data and in the EDD with QCType "Laboratory\_Control\_Sample\_Duplicate".
- Report the additional Matrix Spike with an "SRE" suffix in the raw data and EDD.
- Report any Post-Digestion Spike of the additional 5x Matrix Spike with an "ARE" suffix.

Date: 09/04/2024	<b>MA:</b> 3226.0	Title: ICP-AES with Modified Preparation
		Method and Analysis of Soils with Additional
		Laboratory QC
Method Source: SFAM01.1	Method: ICP-AES	

Matrix: Soil/Sediment

### **Summary of Modification**

The purpose of this modified analysis is to prepare samples by EPA Draft Method 3050C (see below) with additional modified LCS and Matrix Spikes and analyze for the scheduled target analytes by ICP-AES. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

### I. Analyte Modifications

Not applicable

### II. Calibration and QC Requirements

Not applicable

The Laboratory shall:

- Use the Method Detection Limits determined for routine soil analyses (i.e., Method 3050B) to report the results for these analyses. The Laboratory is NOT required to perform an MDL study for Draft Method 3050C.
- Prepare and analyze an additional Laboratory Control Sample (LCS) spiked at the CRQL. Percent Recovery limits do NOT apply to this LCS and no corrective actions are required.
- Prepare a Matrix Spike spiked at two times the levels specified in the SOW.
- Post-Digestion Spike requirements apply to the 2x Matrix Spike.
- Post-Digestion Spike corrective actions apply to Sb.

### **III. Preparation and Method Modifications**

Not applicable

- Prepare and analyze the sample by EPA Draft Method 3050C as follows:
  - $\circ$  Mix sample thoroughly and transfer 1.00 1.50 g to a digestion vessel.
  - $\circ$  Add 10 mL 1:1 HNO<sub>3</sub> and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10 -15 minutes.
  - Add 5 mL concentrated HNO₃ and reflux for 30 minutes at 95°C (±3°C), repeat until digestion complete.
  - o Concentrate sample to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C).
  - $\circ$  Cool sample, add 2mL water and 3 mL 30% H<sub>2</sub>O<sub>2</sub>. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H<sub>2</sub>O<sub>2</sub> until effervescence is minimal.
  - Dilute to 100 mL with water, centrifuge or filter as necessary prior to analysis.
- The same sample extracts can also be used for ICP-MS analysis. Separate Matrix Spikes and LCS will need to be prepared for both ICP-AES and ICP-MS analyses.
- Analyze the samples starting at an initial 2x dilution. Subsequently, dilute samples as necessary to bring the analyte concentrations within the calibration range of the instrument per the SOW.
- Verify that the dilution was adequate to reduce interferents to within the method calibration range. This can optionally be verified by visual verification of the spectrogram or by analysis of a serial dilution. There are other acceptable means to provide assurance, e.g. some software may automatically provide guidance to the analyst.
- Method Blanks, both LCS, and all instrument QC are to be analyzed undiluted.

### **IV. Special Reporting Requirements**

Not applicable

- Ensure the SDG Narrative is updated as stated in the SOW, including any technical and
  administrative problems encountered and the resolution or corrective actions taken. These
  problems may include interference problems encountered during analysis, dilutions, re-analyses
  and/or re-preparations performed, and problems with the analysis of samples. Also include a
  discussion of any SOW Modified Analyses, including a copy of the approved modification form
  with the SDG Narrative.
- Initial analysis data are reported with a dilution factor of 2.0 and a final volume of 100 mL, per the SOW.
- Report the additional LCS as "LCSD" in the raw data and in the EDD with QCType "Laboratory\_Control\_Sample\_Duplicate".
- Ensure that up-to-date Interelement Correction Factors (IECs) are provided with the data package.

Element, Wavelength and Order			IEC	k1	k2	Calc-in-fit?
As 189.042 {479}		1	Fe	-0.000064	0.000000	No
TI 190.856 {477}	$\boxtimes$	5	Мо	-0.002450	0.000000	No
			Co	0.002248	0.000000	No
			Ti	-0.000500	0.000000	No
	***************************************		Mn	0.000370	0.000000	No
			V	-0.012340	0.000000	No
Pb 220.353 {453}	X	6	Мо	-0.001480	0.000000	No
			Al	-0.000075	0.000000	No
<u> </u>	***************************************	:	Cu	0.001400	0.000000	No
	***************************************		Fe	0.000030	0.000000	No
	***************************************		Mn	0.000340	0.000000	No
	***************************************		Ni	0.000630	0.000000	No
Se 196.090 {472}	Ø	3	Fe	-0.000308	0.000000	No
			Mn	0.000470	0.000000	No
			Со	-0.000630	0.000000	No
Sb 206.833 {463}	Ø	4	Cr	0.010700	0.000000	No
		<u> </u>	V	-0.001168	0.000000	No
			Мо	-0.002850	0.000000	No
	14111414141414141414141414141414		Ni	-0.000440	0.000000	No
Al 396.152 { 85}	X	1	Мо	0.037230	0.000000	No
Ba 493.409 { 68}		None		0.007200	0.000000	1110
Be 234.861 {144}		3	Мо	-0.000320	0.000000	No
			Fe	0.000010	0.000000	No
	***************************************		Mn	-0.000047	0.000000	No
Cd 214.438 {457}	$\boxtimes$	1	Fe	0.000047	0.000000	No
Ca 373.690 { 90}	<u></u>	None	1.5	0.000040	0.000000	INO
Cr 267.716 {126}			Mn	0.000160	0.000000	No
Co 228.616 {448}		1				
00 220.010 (440)		2	Ti	0.001840	0.000000	No
Cu 324.754 {104}			Mo	-0.001230	0.000000	No
Cu 324.734 {104}		4	Co	-0.000796	0.000000	No
			Fe	-0.000100	0.000000	No
		<u> </u>	Mn	0.000345	0.000000	No
F- 050 007 (400)			Ni	0.000895	0.000000	No
Fe 259.837 {130}		None				
Mn 257.610 {131}	<u> </u>	1	Ni Ni	0.000897	0.000000	No
Mg 279.079 {121}		None				
Ni 231.604 {446}		None			<b></b>	
Ag 328.068 {103}	$\square$	3 [	Fe	-0.000100	0.000000	No
			Mn	0.000146	0.000000	No
			V	-0.000889	0.000000	No
Na 818.326 { 41}		None			į	Į
V 292.402 {115}		2	Мо	-0.008480	0.000000	No
	<u></u>	<u>.</u>	Cr	-0.002220	0.000000	No
Zn 206.200 {464}		None				
Zn 213.856 {158}		1 [	Ni	0.007280	0.000000	No
< 769.896 { 44}		None				
P 177.495 {490}		2	Ni	0.001640	0.000000	No
		i	Cu	-0.012530	0.000000	No
3 249.678 {135}		3	Со	0.002880	0.000000	No
	<u> </u>		V	-0.002000	0.000000	No
	Ī	·····	Fe	-0.001360	0.000000	No
Ло 202.030 {467}		None				
§ 182.034 {485}	X	2	Мо	-0.008000	0.000000	No
	K		Mn	0.002700	0.000000	No

Element, Wavelength an Order	d Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Si 251.611 {134		2	Мо	0.010520	0.000000	No
			Ti	0.005650	0.000000	No
Sn 189.989 {478		None		· · · · · · · · · · · · · · · · · · ·	·	
Ti 336.121 {100}	$\square$	1	Ni	-0.001000	0.000000	No
Li 670.784 { 50}		None		İ		· · · · · · · · · · · · · · · · · · ·
Y 224.306 {450}*		None		<u>.</u>	*	
Y 360.073 { 94}*		None			·•	·
Y 371.030 { 91}*		None				
Y 224.306 {150}*		None			. <u></u>	<u> </u>
In 230.606 {446}*		None	***************************************	***************************************		
Sr 407.771 { 83}		None	***************************************	***************************************	<u> </u>	<u>:</u>



### PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh

Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107 OVENTEMP OUT Celsius(°C): 103

Time IN: 14:15 Time OUT: 07:48

In Date: 10/26/2024 Out Date: 10/27/2024

 Weight Check 1.0g: 1.00
 Weight Check 1.0g: 1.00

 Weight Check 10g: 10.00
 Weight Check 10g: 10.00

OvenID: M OVEN#1 BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

Qc:LB133146

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Sample	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
P4526-01	MYE4M3	1	1.17	8.43	9.6	9.42	97.9	
P4526-02	MYE4M3D	2	1.17	8.43	9.6	9.42	97.9	
P4526-03	MYE4M3S	3	1.17	8.43	9.6	9.42	97.9	
P4527-01	MYE4R9	4	1.15	8.70	9.85	9.56	96.7	
P4527-02	MYE4R9D	5	1.15	8.70	9.85	9.56	96.7	
P4527-03	MYE4R9S	6	1.15	8.70	9.85	9.56	96.7	

# WORKLIST(Hardcopy Internal Chain)

WorkList ID: 184830

%1-p4526

WorkList Name:

04/24/2024 Chemtech -SO 04/24/2024 Chemtech -SO Date: 10-26-2024 12:43:17 Collect Date Method Raw Sample Storage Location A11 A11 USEP01 USEP01 Customer Cool 4 deg C Cool 4 deg C Preservative Percent Solids Percent Solids Test Matrix Solid Customer Sample MYE4M3D MYE4M3 P4526-01 P4526-02 Sample

04/24/2024 Chemtech -SO 04/24/2024 Chemtech -SO 04/24/2024 Chemtech -SO

A11 **A11** A11 A11

USEP01 USEP01 USEP01 USEP01

Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C

Percent Solids Percent Solids

Solid Solid

MYE4M3S

P4526-03

MYE4R9

MYE4R9D MYE4R9S

P4527-02 P4527-01

P4527-03

Percent Solids Percent Solids

Solid Solid

04/24/2024 Chemtech -SO

Department: Wet-Chemistry

निमाहरा दी

Date/Time [0/26/24 Raw Sample Received by:

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 10/26/24 13 145

Raw Sample Relinquished by: