SDG COVER PAGE

Lab Name:	Alliance	Technical Group, LLC	Contract	68HERH201	00011	
Lab Code:	ACE	Case No.: 318680	MA No.:	3105.0		SDG No.: MH2GQ3
SOW No. :	SFAM01.1					
EPA Sample	No.	Lab Sample Id	ICP-AES	Analysis ICP-MS	Method Mercury	Cyanide
MH2GQ3		P4957-01		Х		
MH2GQ3D		P4957-02		Х		
MH2GQ3S		P4957-03		Х		
MH2GS3		P4957-04		Х		
MH2GS4		P4957-05		Х		
MH2GS5		P4957-06		Х		
MH2GS6		P4957-07		Х		
MH2GS7		P4957-08		Х		
MH2GS8		P4957-09		Х		
MH2GS9		P4957-10		Х		
MH2GT0		P4957-11		Х		
MH2GT1		P4957-12		Х		
MH2GT2		P4957-13		Х		
MH2GT3		P4957-14		Х		
MH2GT4		P4957-15		Х		
MH2GT5		P4957-16		Х		

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:

custody adds humit	custedy a							-
せ	さんし住	1-20-24	R	11/21/24 H2/12/11	27	2	Hort -	Samples
Sample Condition Upon Receipt	Sample Cor	Date/Time	Received by (Signature and Organization)	Date/Time Receive	ganization)	Relinquished by (Signature and Organization)	elinquished by	Items/Reason R
			-			tal Metals ICP/MS	S=CLP TAL Tot	Analysis Key: ICP/MS=CLP TAL Total Metals ICP/MS
n of Custody #	ed From Chai	Samples Transferred From Chain of Custody #			- ogc, o			Analyze per MA 3105
	Complete? N	Shipment for Case Complete? N		Sample(s) to be used for Lab OC: S-I ABOC 2024-703 Tax 24420 S-I ABOC 2024 Tot Tax 24430 - Special Instructions:	Tan 24/20 C_	-I ARAC-20024-703	for lab OC: S	mnle/s) to he user
):52 A	11/15/2024 10:52	APW-2556	24438 (None) (1)	ICP/MS(14)	Composite	Soll/ SH, LP	MH2GR1	S2556-APW- 1218-01
):50 X	11/15/2024 10:50	APW-2556	24437 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GR0	S2556-APW- 0612-01
):48 X	11/15/2024 10:48	APW-2556	24436 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GQ9	S2556-APW- 0106-01
0:46 X	11/15/2024 10:46	APW-2556	24435 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GQ8	S2556-APW- 0001-01
1:24 V	11/15/2024 11:24	APS-2556	24434 (None) (1)	ICP/M <u>\$</u> (14)	Composite	Soil/ SH, LP	MH2GQ7	S2556-APS-1218- 01
1:22 }	11/15/2024 11:22	APS-2556	24433 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GQ6	S2556-APS-0612- 01
1:20 Y	11/15/2024 11:20	APS-2556	24432 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GQ5	S2556-APS-0106- 01
1:18	11/15/2024 11:18	APS-2556	24431 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GQ4	S2556-APS-0001- 01
0:32	11/15/2024 10:32	X	24430 (None) (3)	ICP/MS(14)	Subsample	Soil/ SH, LP	MH2GQ3	S-LABQC-2024- 704
0:48 +	11/15/2024 10:48	X	24429 (None) (3)	ICP/MS(14)	Subsample	Soil/ SH, LP	MH2GQ2	S-LABQC-2024- 703
n For Lab Use e Only	Collection Date/Time	Location	Tag/Preservative/Bottles	Analysis/Turnaround (Days)	Coll. Method	Matrix/Sampler	CLP Sample No.	Sample Identifier
Lab Phone: 908-789-8900	Lab		. *2	Cooler #: 2			7 7550	AirbillNo: 7707 3347 7550
Lab Contact: Sohil Jodhani	Lab C		1822	Case #: 51822			×	CarrierName: FedEx
Lab: Alliance Technical Group LLC	Lab: Alliance						12024	DateShipped: 11/21/2024

Page 1 of 4

68HERH20D0011

31

SDG # MH2GQ3 No: 8-112124-133954-0600

	- 10 A -							
10000	The and and interest							
		0765	X	06H1 H20	. '	the pwi	The te	Samples
Ipon Receip	Sample Condition Upon Receipt	Date/Time	Received by (Signature and Organization)	ime		Signature and Org	Relinquished by (Signature and Organization)	Items/Reason
						Metais ICP/MS	IS=CLP TAL Total	Analysis Key: ICP/MS=CLP TAL Total Metals ICP/MS
stody #	Samples Transferred From Chain of Custody #	amples Transferre	0			3105	: Analyze per MA	Special Instructions: Analyze per MA 3105
	Complete? N	Shipment for Case Complete? N	0					
10	11/15/2024 11:08	SYE-2556	24458 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GT1	S2556-SYE-1218- 01
ه_	11/15/2024 11:06	SYE-2556	24457 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GT0	S2556-SYE-0612- 01
\$	11/15/2024 11:04	SYE-2556	24456 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GS9	S2556-SYE-0106- 01
Y	11/15/2024 11:02	SYE-2556	24455 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GS8	S2556-SYE-0001- 01
~	11/15/2024 11:32	LRS-2556	24454 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GS7	S2556-LRS-1218- 01
-1	11/15/2024 11:30	LRS-2556	24453 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GS6	S2556-LRS-0612- 01
ح	11/15/2024 11:28	LRS-2556	24452 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GS5	S2556-LRS-0106- 01
J	11/15/2024 11:26	LRS-2556	24451 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GS4	S2556-LRS-0001- 01
בפ	11/15/2024 11:16	FY-2556	24450 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GS3	S2556-FY-1218- 01
	11/15/2024 11:14	FY-2556	24449 (None) (1)	ICP/MS(14)	Composite	Soil/ SH, LP	MH2GS2	S2556-FY-0612- 01
For Lab Use Only	Collection I Date/Time	Location	Tag/Preservative/Bottles	Analysis/Turnaround (Days)	Coll. Method	Matrix/Sampler	CLP Sample No.	Sample Identifier
908-789-89	Lab Phone: 908-789-8900		N	Cooler #: 2			47 7550	AirbillNo: 7707 3347 7550
Sohil Jodha	Lab Contact: Sohil Jodhani		322	Case #: 51822			Ţ	Carriervame: FedEx

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USEPA CLP Inorganics COC (LAB COPY)

CHAIN OF CUSTODY RECORD 68HERH20D0011

SDG # MH2GQ3

No: 8-112124-133954-0600

Shipment for Case Complete? N	Vage 4 of 4 USEPA CLP Inorganics COC (LAB COPY) DateShipped: 11/21/2024 CarrierName: FedEx AirbillNo: 7707 3347 7550 Matrix/S Sample Identifier CLP Matrix/S \$2556-SYW- MH2GT2 Soil/ S 0001-01 MH2GT3 Soil/ S \$2556-SYW- MH2GT4 Soil/ S 0106-01 S2556-SYW- MH2GT4 Soil/ S \$2556-SYW- MH2GT5 Soil/ S 0612-01 MH2GT5 Soil/ S \$2556-SYW- MH2GT5 Soil/ S 1218-01 MH2GT5 Soil/ S	1/2024 Ex 5550 Sample No. MH2GT2 MH2GT3 MH2GT4 MH2GT5	AB COPY) Matrix/Sampler Soil/ SH, LP Soil/ SH, LP Soil/ SH, LP	Coll. Method Composite Composite Composite	CHAIN OF CUST Case #: Coolei Analysis/Turnaround (Days) ICP/MS(14) ICP/MS(14) ICP/MS(14)	68HERH20D0011 Case #: 51822 Cooler #: 2 Vsis/Turnaround (Days) Tag/Preservative/Bottles (None) (1) ICP/MS(14) 24459 (None) (1) ICP/MS(14) 24460 (None) (1) ICP/MS(14) 24461 (None) (1) ICP/MS(14) 24462 (None) (1) ICP/MS(14) 24462 (None) (1)	Location SYW-2556 SYW-2556 SYW-2556 SYW-2556	SDG # MH2GQ3 No: 8-112124-133954-0600 Lab: Alliance Technical Group LLC Lab Contact: Sohil Jodhani 11/15/2024 10:54 11/15/2024 10:58 11/15/2024 11:00 11/15/2024 11:00	MH2GQ3 ance Technical Group LLC Lab Contact: Sohil Jodhani Lab Phone: 908-789-8900 VTrime VTime V1 224 10:56 124 10:58 124 10:58 124 10:58 124 10:50 124 10:58 124 10:58 124 10:58 14
MH2GT5 Soll/ SH, LP Composite ICP/MS(14) 24462 (None) (1) SYW-2556 11/15/2024 11:00	S2556-SYW- 0106-01 S2556-SYW- 0612-01	MH2GT3 MH2GT4	Soil/ SH, LP Soil/ SH, LP	Composite Composite	ICP/MS(1/		SYW-2556 SYW-2556	11/15/2024 10:56 11/15/2024 10:58	4°1
Shipment for Case Complete? N	S2556-SYW- 1218-01	MH2GT5	Soil/ SH, LP	Composite	ICP/MS(14		SYW-2556	11/15/2024 11:00	15
Shipment for Case Complete? N									
	3	Relinquished b	y (Signature and Or		Date/Time \[zɪ/ʒɹ	Received by (Signature and Organization)	Date/Time	_	n Upon Receip
Relinquished by (Signature and Organization) Date/Time Received by (Signature and Organization) Date/Time	Sumples	thete	A P	4	^{N/21/24} 1430	X	Sh£ 0 Sh£ 0		#1 Us juter
n Relinquished by (Signature and Organization) Date/Time Received by (Signature and Organization) Date/Time								Temp DN- pusselt	pussent

Page 4 of 4

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alli	ance Technical Group	, LLC				Page_1_of_	1	
Received By (Pr	int Name) Good		JESUPN			Log-in Date	e 11/22/2	2024
Received By (Si	gnature)	A	R R R R R R R R R R R R R R R R R R R					
Case Number	51822	SDG	No. MH20	GQ3		MA No. 31	05.0	
		1						
Remarks:						Correspondi		
1. Custody Seal (s)	Present, Intact			Aqueous				Remarks: Condition
2. Custody Seal Nos.	<u>n/a</u>		EPA Sample #	Water Sample pH	' Sam Tag	•	Assigned Lab #	of Sample
3. Traffic Reports/Chain Of	Present	1	MH2GQ3	N/A	24430		P4957-01	Intact
Custody Records		2	MH2GQ3D	N/A	24430		P4957-02	Intact
4. Airbill		3	MH2GQ3S	N/A	24430		P4957-03	Intact
4. AILUIII	Present	4	MH2GS3	N/A	24450		P4957-04	Intact
5. Airbill No. and	770133477550	5	MH2GS4	N/A	24451		P4957-05	Intact
Shipping Container ID No.	1	6	MH2GS5	N/A	24452		P4957-06	Intact
		7	MH2GS6	N/A	24453		P4957-07	Intact
6. Shipping Container Temperature	Present	8	MH2GS7	N/A	24454		P4957-08	Intact
Indicator Bottle		9	MH2GS8	N/A	24455		P4957-09	Intact
7. Shipping Container	2.2 Degree C	10	MH2GS9	N/A	24456		P4957-10	Intact
Temperature	2.2 Degree C	11	MH2GT0	N/A	24457		P4957-11	Intact
8. Sample	Intact	12	MH2GT1	N/A	24458		P4957-12	Intact
Condition		13	MH2GT2	N/A	24459		P4957-13	Intact
		14	MH2GT3	N/A	24460		P4957-14	Intact
9. Sample Tags	Absent	15	MH2GT4	N/A	24461		P4957-15	Intact
Sample Tag Numbers	Listed on Traffic	16	MH2GT5	N/A	24462		P4957-16	Intact
	Report	17	N/A	N/A	N/A		N/A	N/A
10. Does information on Traffic	Yes	18	N/A	N/A	N/A		N/A	N/A
Reports/Chain of		19	N/A	N/A	N/A		N/A	N/A
Custody Records and Sample Tags		20	N/A	N/A	N/A		N/A	N/A
agree ?		21	N/A	N/A	N/A		N/A	N/A
 Date Received at Lab 	11/22/2024	22	N/A	N/A	N/A		N/A	N/A
		23	N/A	N/A	N/A		N/A	N/A
12.Time Received	07:45							

* Contact SMO and attach record of resolution

Reviewed By Logbook No. N/A Date 11/22/24 Logbook Page No. N/A

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

LAB NAME	Alliance Tech	nical Group, LLC	
LAB CODE	ACE		
CONTRACT NO.	68HERH20D0011		
CASE NO.	51822	SDG NO.	MH2GQ3
MA NO.	3105.0	SOW NO.	SFAM01.1
MA NO.	3105.0	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:	CH	IECK
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	~	
2. Traffic Report/Chain of Custody Record(s)	2	4	✓	- <u> </u>
3. Sample Log-In Sheet (DC-1)	5	5	✓	
4. CSF Inventory Sheet (DC-2)	6	8	✓	
5. SDG Narrative	9	12	✓	
6. Communication Logs	NA	NA	✓	
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	NA	NA	1	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	NA	NA		. <u> </u>
				·
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	NA	NA	✓	<u> </u>
Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	1	
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	13	26	✓	
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	27	491	✓	
Other Data				
19. Standard and Reagent Preparation Logs	492	629	1	
20. Original Preparation and Cleanup forms or copies of Preparation and	630	631		·
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or	632	636	✓	
Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA		
Instructions				·

23. Extraction Logs for TCLF and SPLP TO LAB REGION 24. Raw GPC Data NA NA NA NA NA 25. Raw Florisil Data NA NA NA V		PAGE N	10s:	CH	IECK
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26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA	25. Raw Florisil Data	NA	NA	✓	
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28. Standard and Reagent Preparation Logs NA NA NA 29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks NA NA NA 30. Original Analysis or Instrument Run forms or copies of Analysis or Instructions NA NA NA NA 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions NA NA NA NA NA 32. Extraction Logs for TCLP and SPLP NA NA NA NA NA NA 33. Raw GPC Data NA NA NA NA NA NA NA 34. Raw Florisil Data NA NA <td></td> <td>NA</td> <td>NA</td> <td>✓</td> <td>·</td>		NA	NA	✓	·
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30. Original Analysis or Instrument Run forms or copies of Analysis or NA NA<		NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 32. Extraction Logs for TCLP and SPLP NA NA NA NA 33. Raw GPC Data NA NA NA NA NA 34. Raw Florisil Data NA NA NA NA NA Analysis Forms and Data (Cyanide) Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA NA NA 36. Instrument raw data by instrument in analysis order NA NA NA Other Data 33. Original Analysis or Instrument Run 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	30. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA		
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34. Raw Florisil Data 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 NA NA NA ✓ 36. Instrument raw data by instrument in analysis order 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 Other Data 37. Standard and Reagent Preparation Logs NA 38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks NA 39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks NA 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions NA 41. Extraction Logs for TCLP and SPLP NA 42. Raw GPC Data NA	33. Raw GPC Data	NA	NA	✓	
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 ✓	34. Raw Florisil Data	NA	NA	✓	
or sample analysis, laboratory QC as applicable 36. Instrument raw data by instrument in analysis order NA NA V Other Data 37. Standard and Reagent Preparation Logs NA NA V 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 NA NA V	Analysis Forms and Data (Cyanide)				
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 ✓		NA	NA	✓	
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 ✓		NA	NA	✓	
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 ✓	Other Data				
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		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 ✓		NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓ 1. Extraction Logs for TCLP and SPLP NA NA ✓ 42. Raw GPC Data NA NA ✓	39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA		
41. Extraction Logs for TCLP and SPLP NA NA ✓ 42. Raw GPC Data NA NA ✓	40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
		NA	NA		
43. Raw Florisil Data NA NA 🖌	42. Raw GPC Data	NA	NA	✓	
	43. Raw Florisil Data	NA	NA	✓	

	<u>P2</u>	AGE NOs:	CH	IECK
	FRC	М ТО	LAB	REGION
Additional 44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	63	637	1	
Sample Tags	1	IA NA	✓ <i>✓</i>	
Sample Log-In Sheet (Lab)	63	38 639	·	
45. Misc. Shipping/Receiving Records(list all individual record		JA NA		
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)	64	40 640	✓	
47. Other Records and related Communication Logs (describe or list)		JA NA	·	
48. Comments:				
	Pandya, Document Con [.] Name & Title)	trol Office	er (Da	te)
Audited by: (EPA)	a field,		(Da	,
(Signature) (Print)	Name & Title)		(Da	te)



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SDG NARRATIVE

USEPA SDG # MH2GQ3 CASE # 51822 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # P4957 MODIFIED ANALYSIS #3105.0

A. Number of Samples and Date of Receipt

14 Soil samples were 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.

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.

G. Calculation:

Calculation for ICP-MS Soil Sample:



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

Concentration (mg/kg) = $C \times Vf = Vf + 1000$ W x S

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 MH2GQ3 For Antimony:

If C = 1.54 ppb
Vf = 500 ml
W = 2.25 g
S = 1.0(100/100)
DF = 1
Concentration (mg/kg) =
$$1.54 \text{ x} \frac{500}{2.25 \text{ x} 1.0} \text{ x} 1/1000$$

= 0.34222 mg/kg
= 0.34 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.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb

Internal Standard Association for ICP-MS analysis.



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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

Date: 06/25/2021	MA: 3105.0	Title: ICP-MS Analysis with Increased Sample Mass
Method Source: SFAM01.1	Method: ICP-MS	· · ·
Matrix: Soil/Sediment		
Summary of Modification		
by ICP-MS (processed by Incr	emental Sampling ality Control (QC),	vze dried, composited, and sieved soil/sediment samples Methodology). Unless specifically modified by this and reporting requirements specified in the SOW listed in I and in full force and effect.
I. Analyte Modifications		Not applicable 🔀
II. Calibration and QC Requi	rements	Not applicable 🔀
III. Preparation and Method	Modifications	Not applicable
The Laboratory shall:		
 Receive the composition samples will be received. The aliquots show the same set of the solution. Remove and weigh the solution set of the s	ted samples dried a ved in plastic baggi all not be re-combi ount of acid reagen ambient temperation he entire content w	Solids for the samples. and sieved prior to shipment to the Laboratory. The ies as individual aliquots with approximately 2 grams ined and/or subsampled at the Laboratory. Ints added to the sample to account for the increase in ure from the time of receipt until preparation. Do not within each baggie followed by digesting the entire sample Duplicates if additional aliquots were provided for these
IV. Special Reporting Require	ements	Not applicable
administrative proble include interference preparations perforn	Narrative is update ems encountered a problems encounte ned, and problems	ed as stated in the SOW, including any technical and and the corrective action taken. These problems may ered during analysis, dilutions, re-analyses or re- with the analysis of samples. Also include a discussion of copy of the approved modification with the SDG