SDG COVER PAGE

Alliance Technical Group, LLC Lab Name: Contract: 68HERH20D0011 Lab Code: Case No.: 51772 MA No.: 3225.1,3226.1 SDG No.: MYDB23 SOW No. : SFAM01.1 Analysis Method EPA Sample No. Lab Sample Id ICP-AES ICP-MS Mercury Cyanide MYDB23 P4313-01 Χ Χ MYDB24 P4313-02 Χ Χ MYDB25 P4313-03 Χ Χ MYDB26 P4313-04 Χ MYDB26D P4313-05 Χ Χ MYDB26S P4313-06 Χ Χ MYDB27 P4313-07 Χ Χ MYDB28 P4313-08 Χ Χ P4313-09 MYDB29 Χ Χ P4313-10 Χ Χ MYDB30 Χ Χ MYDB31 P4313-11 MYDB32 P4313-12 Χ Χ MYDB33 P4313-13 Χ Χ Χ Χ MYDB34 P4313-14 MYDB35 P4313-15 Χ Χ MYDB36 P4313-16 Χ Χ MYDB37 P4313-17 Χ Χ MYDB38 P4313-18 Χ Χ MYDB39 P4313-19 Χ Χ MYDB40 P4313-20 Χ Χ MYDB41 P4313-21 Χ Χ Χ Χ MYDB61 P4313-22

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:

DateShipped: 10/3/2024

CarrierName: FedEx

USEPA CLP COC (LAB COPY)

68HERH20D0011

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed Lab Phone: 908-728-3151

No: 9-062124-085540-0079

SDG # MYDB23

CHAIN OF CUSTODY RECORD

Cooler #: 51772-079 Case #: 51772

AirbillNo: 7790 0057 5645	5645			Cooler #: 51//2-0/9	2-078			
Sample Identifier	CLP	Matrix/Sampler	Coll.	Analysis/Turnaround	Tag/Preservative/Bottles	Location	Collection Date/Time	Only
	Sample No.		Method	(Days)	0 5301 (None) (1)	1108-B-0005	06/20/2024 08:36	_
1108-B-0005-01	MYDB23	Soil/ REAC	Grab	ICP-AES TI(ZI)	9-000 (None) (1)	1108-4-0002	06/20/2024 08:36	٦
20000000	MYDRM	Soil/ REAC	Grab	ICP-AES 11(21)	9-5302 (None) (1)	100770002	200000000000000000000000000000000000000	ø
1108-A-0002-01	MIDDET			ICD_AES 11(21)	9-5303 (None) (1)	1108-B-0006	06/20/2024 08:37	7
1108-B-0006-01	MYDB25	Soil/ REAC	Grab		0 5304 (Nama) (1)	1108-A-0008	06/20/2024 08:39	C4-80
1108-A-0008-03	MYDB26	Soil/ REAC	Grab	ICP-AES 11(21)	9-5304 (None) (1)	1100 0 0001	08/20/2024 08:39	5
4400 B 0004-01	MYDR27	Soil/ REAC	Grab	ICP-AES 11(21)	8-0300 (NOIR) (1)		000000000000000000000000000000000000000	3
	MAYDDOO	CAIL BEAC	Grab	ICP-AES 11(21)	9-5306 (None) (1)	COOD-G-DOLL	00/20/202700.71	3
1108-8-0003-01	MI DOZO	000000000000000000000000000000000000000	Crah	ICP-AFS 11(21)	9-5307 (None) (1)	1108-B-0001	06/20/2024 08:42	3
1108-B-0001-01	MY DEZS		0.25	ICP-AES 11(21)	9-5308 (None) (1)	1108-G-0010	06/20/2024 13:27	P
1108-G-0010-01	MYDB30	SOIL KEAC	Giac	100 ATC 11/01)	0_5309 (None) (1)	1108-C-0003	06/20/2024 08:27	و
1108-C-0003-01	MYDB31	Soil/ REAC	Grab	ICP-AES I (21)	0 5040 (None) (4)	1108-F-0001	06/20/2024 09:28	10
1108-E-0001-01	MYDB32	Soil/ REAC	Grab	ICP-AES 11(21)	8-33 IO (MOITE) (1)	1100 0 0007	06/20/2024 13:25	
1100 0 0007 01	MYDR33	Soil/ REAC	Grab	ICP-AES 11(21)	9-5311 (None) (1)	1100-0-0007	000000000000000000000000000000000000000	
100-0-004 01	MVDB3A	Soil/ REAC	Grab	ICP-AES 11(21)	9-5312 (None) (1)	1108-1-0004	06/20/2024:05:14	: 1
108-1-0004-01	2000	Soll DEAC	Grah	ICP-AES 11(21)	9-5313 (None) (1)	1108-D-0002	06/20/2024 09:10	17
1108-D-0002-01	SERULIM	0011 7570	2 2	ICD AES 11/21)	9-5314 (None) (1)	1108-F-0007	06/20/2024 09:16	3
1108-F-0007-01	MYDB36	Soil/ REAC	Grab	CT-AE0 (A1)	0 5315 (None) (1)	1108-D-0005	06/20/2024 09:17	3
1108-D-0005-01	MYDB37	Soil/ REAC	Grab	ICP-AES TI(ZT)	0 5346 (None) (1)	1108-F-0008	06/20/2024 09:17	6
1108-F-0008-01	MYDB38	Soil/ REAC	Grab	ICP-AES 11(21)	9-53 to (Notic) (1)	1108 E-0008	06/20/2024 09:18	3
1108-F-0008-02	MYDB39	Soil/ REAC	Grab	ICP-AES 11(21)	8-531/ (MOIN) (1)	1100 0000	06/20/2024 09:19	5
1108-E-0002-01	MYDB40	Soil/ REAC	Grab	ICP-AES 11(21)	9-5318 (None) (1)	100-1-0002	06/20/2020 00:24	
11 X-T-Z	- CC+C		4.			1100 7 0007	08/30/30104	

Sample(s) to be used for Lab QC: 1108-A-0008-03 Tag 9-5304 - Special Instructions: ICP-AES 11+Metals:Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn ICP-MS 11+ Metals: Ag, As, Ba,Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se,Tl, V, Zn

1108-F-0002-01 1108-D-0007-01

> MYDB41 MYDB40

> > Soil/ REAC

Soil/ REAC

Grab Grab

> ICP-AES 11(21) ICP-AES 11(21)

9-5319 (None) (1)

1108-D-0007 1108-F-0002

06/20/2024 09:21 06/20/2024 09:19

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

Analysis Key: ICP-AES 11=ICP-AES 11+Metals

	LAB	ð	Items/Reason Relinqu	
	W YOUNG WATER	M. Same Winston	Relinquisited by (origination and organization)	ished by (Signature and Organization)
		1600		Date/Time
	0	P. Helenda		Received by (Signature and Organization)
		9:39	10/4/29	Date/Time
NO TOME /NO ICE	Costude Seal intrac		47 GOA #1 21.11	Sample Condition upon Receipt
) ICE	intac		21.1	on Receipt

68HERH20D0011

USEPA CLP COC (LAB COPY)

AirbillNo: 7790 0057 5645 CarrierName: FedEx DateShipped: 10/3/2024

CHAIN OF CUSTODY RECORD

Cooler #: 51772-079 Case #: 51772

SDG # MYDB23

No: 9-062124-085540-0079

Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

Soil/ REAC Grab ICP-AES 11(21) 9-5339 (None) (1) Soil/ REAC Grab ICP-AES 11(21) 9-5340 (None) (1) Soil/ REAC Grab ICP-AES 11(21) 9-5341 (None) (1) Soil/ REAC Grab ICP-AES 11(21) 9-5342 (None) (1) Soil/ REAC Grab ICP-AES 11(21) 9-5342 (None) (1) Soil/ REAC Grab ICP-AES 11(21) 9-5343 (None) (1) Soil/ REAC Grab ICP-AES 11(21) 9-5346 (None) (1) Soil/ REAC Grab ICP-AES 11(21) 9-5349 (None) (1)	MYDB61 Soil/ REAC Grab ICP-AES 11(21) 9-5339 (None) (1) MYDB62 Soil/ REAC Grab ICP-AES 11(21) 9-5340 (None) (1) MYDB63 Soil/ REAC Grab ICP-AES 11(21) 9-5341 (None) (1) MYDB64 Soil/ REAC Grab ICP-AES 11(21) 9-5342 (None) (1) MYDB65 Soil/ REAC Grab ICP-AES 11(21) 9-5343 (None) (1) MYDB66 Soil/ REAC Grab ICP-AES 11(21) 9-5344 (None) (1) MYDB68 Soil/ REAC Grab ICP-AES 11(21) 9-5345 (None) (1) MYDB70 Soil/ REAC Grab ICP-AES 11(21) 9-5346 (None) (1) MYDB71 Soil/ REAC Grab ICP-AES 11(21) 9-5348 (None) (1) MYDB72 Soil/ REAC Grab ICP-AES 11(21) 9-5349 (None) (1) MYDB72 Soil/ REAC Grab ICP-AES 11(21) 9-5349 (None) (1) MYDB73 Soil/ REAC Grab ICP-AES 11(21) 9-5349 (None) (1)	Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Date/Time
MYDB62 Soil/ REAC Grab ICP-AES 11(21) 9-5340 (None) (1) MYDB63 Soil/ REAC Grab ICP-AES 11(21) 9-5341 (None) (1) MYDB64 Soil/ REAC Grab ICP-AES 11(21) 9-5342 (None) (1) MYDB65 Soil/ REAC Grab ICP-AES 11(21) 9-5343 (None) (1) MYDB66 Soil/ REAC Grab ICP-AES 11(21) 9-5344 (None) (1) MYDB67 Soil/ REAC Grab ICP-AES 11(21) 9-5345 (None) (1) MYDB68 Soil/ REAC Grab ICP-AES 11(21) 9-5346 (None) (1) MYDB70 Soil/ REAC Grab ICP-AES 11(21) 9-5347 (None) (1) MYDB71 Soil/ REAC Grab ICP-AES 11(21) 9-5348 (None) (1) MYDB72 Soil/ REAC Grab ICP-AES 11(21) 9-5349 (None) (1) MYDB72 Soil/ REAC Grab ICP-AES 11(21) 9-5349 (None) (1) MYDB73 Soil/ REAC Grab ICP-AES 11(21) 9-5349 (None) (1)	MYDB62 Soil/ REAC Grab ICP-AES 11(21) 9-5340 (None) (1) MYDB63 Soil/ REAC Grab ICP-AES 11(21) 9-5341 (None) (1) MYDB64 Soil/ REAC Grab ICP-AES 11(21) 9-5342 (None) (1) MYDB65 Soil/ REAC Grab ICP-AES 11(21) 9-5342 (None) (1) MYDB66 Soil/ REAC Grab ICP-AES 11(21) 9-5343 (None) (1) MYDB67 Soil/ REAC Grab ICP-AES 11(21) 9-5345 (None) (1) MYDB70 Soil/ REAC Grab ICP-AES 11(21) 9-5346 (None) (1) MYDB71 Soil/ REAC Grab ICP-AES 11(21) 9-5346 (None) (1) MYDB72 Soil/ REAC Grab ICP-AES 11(21) 9-5348 (None) (1) MYDB72 Soil/ REAC Grab ICP-AES 11(21) 9-5349 (None) (1) MYDB73 Soil/ REAC Grab ICP-AES 11(21) 9-5349 (None) (1) MYDB73 Soil/ REAC Grab ICP-AES 11(21) 9-5349 (None) (1)	1100 L 0001 01	MYDR61	Soil/ REAC	Grab	ICP-AES 11(21)	9-5339 (None) (1)	1108-H-0001	0001
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MYDB72 Soil/ REAC Grab ICP-AES 11(21) 9-5350 (None) (1)	MYDB72 Soil/ REAC Grab ICP-AES 11(21) 9-5350 (None) (1)	1108-L-0008-01	MYDB71	Soil/ REAC	Grab	ICP-AES 11(21)	9-5349 (None) (1)	1108-L-00	S
 		1108-M-0005-01	MYDB72	Soil/ REAC	Grab	ICP-AES 11(21)	9-5350 (None) (1)	1108-M-0	005
			,						

Special Instructions: ICP-AES 11+Metals:Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn ICP-MS 11+Metals: Ag, As, Ba,Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se,Tl, V, Zn

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

Analysis Key: ICP-AES 11=ICP-AES 11+Metals

Items/Reason Relinquished	đ	LAS		
Relinquished by (Signature and Organization)	M. R. W.	NAME OF THE PARTY		
	10/3/24@			
Received by (Signature and Organization)	R. Walsonds	C		
Date/Time	9:39			
Sample Condition Upon Receipt	# 1 Sept.	Custudy seal intac	NO TEMY /NO ICE	,
n Kecelpt	-	intac	O ICE	

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC	Page 1 of ¶
Received By (Print Name) lissense	Log-in Date 10/4/2024
Received By (Signature)	•
Case Number 51772 SDG No. MYDB23	MA No. 3225.1,3226.1

Remarks:	
. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779000575645
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	21.7 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	10/04/2024
12.Time Received	09:39

			<u> </u>		
			Correspondi	ng	Damanda.
		Aqueous Water			Remarks: Condition of Sample
	EPA Sample #	Sample pH	Sample Tag #	Assigned	Shipment, etc.
1	MYDB23	N/A	9-5301	P4313-01	Intact
2	MYDB24	N/A	9-5302	P4313-02	Intact
3	MYDB25	N/A	9-5303	P4313-03	Intact
4	MYDB26	N/A	9-5304	P4313-04	Intact
5	MYDB26D	N/A	9-5304	P4313-05	Intact
6	MYDB26S	N/A	9-5304	P4313-06	Intact
7	MYDB27	N/A	9-5305	P4313-07	Intact
8	MYDB28	N/A	9-5306	P4313-08	Intact
9	MYDB29	N/A	9-5307	P4313-09	Intact
10	MYDB30	N/A	9-5308	P4313-10	Intact
11	MYDB31	N/A	9-5309	P4313-11	Intact
12	MYDB32	N/A	9-5310	P4313-12	Intact
13	MYDB33	N/A	9-5311	P4313-13	Intact
14	MYDB34	N/A	9-5312	P4313-14	Intact
15	MYDB35	N/A	9-5313	P4313-15	Intact
16	MYDB36	N/A	9-5314	P4313-16	Intact
17	MYDB37	N/A	9-5315	P4313-17	Intact
18	MYDB38	N/A	9-5316	P4313-18	Intact
19	MYDB39	N/A	9-5317	P4313-19	Intact
20	MYDB40	N/A	9-5318	P4313-20	Intact
21	MYDB41	N/A	9-5319	P4313-21	Intact
22	MYDB#26 d	N/A	9-5339	P4313-22	Intact
23	N/A	N/A	N/A	N/A	N/A

$\ensuremath{^{*}}$ Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	10/4/24	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.	51772	SDG NO.	MYDB23	
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	NOs:	СН	ECK
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	4	✓	
4. CSF Inventory Sheet (DC-2)	5	7	✓	
5. SDG Narrative	8	17	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	18	20	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	21	40	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	41	391	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	392	542	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and	543	544	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	545	553	_	
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	554	573	✓	
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	574	2349	✓	
Other Data				
19. Standard and Reagent Preparation Logs	2350	2489	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and	2490	2491	✓	
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or	2492	2510	✓	
<pre>Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions</pre>	NA	NA	✓	

	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	✓	
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	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	√	
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	✓	
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	✓	·
43 . Raw Florisil Data	NA	NA	✓	

			PAGE	NOs:	CH	IECK
			FROM	TO	LAB	REGION
Additional						
44. EPA Ship	pping/Receiving Documents					
Airbill	(No. of Shipments)		2511	2511	✓	
Sample T	Tags		NA	NA	✓	
Sample I	Log-In Sheet (Lab)		2512	2514	✓	
45. Misc. Sh	nipping/Receiving Records(list all	individual records)				
			NA	NA		
46. Internal	L Lab Sample Transfer Records and 1	Tracking Sheets				
(describ	pe or list)					
			2515	2518		
	ecords and related Communication Lo	ogs				
(describ	pe or list)		NA	NA		
48. Comments	S:					
Completed b (CLP Lab)	у:			0.551		
(CLF Lab)	(Signature)	Nimisha Pandya, Do (Print Name & Tit		Officer	(Da	t.e.)
Audited by:		,====== ===============================	-,		,50	/
(EPA)						
	(Signature)	(Print Name & Tit	ile)		(Da	te)



SDG NARRATIVE

USEPA
SDG # MYDB23
CASE # 51772
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4313
MODIFIED ANALYSIS #3225.1, 3226.1

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 10/04/2024.

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: 21.7°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.



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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) =
$$C \times \frac{Vf}{W \times S} \times DF$$

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 MYDB23 For Arsenic:

If
$$C = 0.1235535 \text{ ppm}$$

$$Vf = 100 ml$$

$$W = 1.12g$$

S = 0.977(97.7/100)

DF = 2

Concentration (mg/kg) =
$$0.1235535 \times \frac{100}{1.12 \times 0.977} \times 2$$

$$= 22.5825 \text{ mg/kg}$$

= 23 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) =
$$C \times Vf \times VF / 1000$$

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)



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DF = Dilution Factor

Example Calculation For Sample MYDB23 For Antimony:

If C = 0.76 ppb

$$Vf = 500 \text{ ml}$$

 $W = 1.12 \text{ g}$
 $S = 0.977(97.7/100)$
 $DF = 1$
Concentration (mg/kg) = 0.76 x $\frac{500}{1.12 \times 0.977} \times 1 / 1000$
= 0.3472 mg/kg
= 0.35 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 except for Selenium. Spike sample(MYDB26SRE) did meet requirements. Spike sample (MYDB26S)did meet requirements except for Arsenic, Beryllium. 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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1110 antamoracy	- 1 0 0 : 0 > -
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: 09/11/2024	MA: 3225.1	Title: ICP-MS with Modified Preparation Method and Analysis of Soils with Additional Laboratory QC
		Laboratory QC
Method Source: SFAM01.1	Method: ICP-MS	

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:
 - Mix sample thoroughly and transfer 1.00 1.50 g to a digestion vessel.
 - Add 10 mL 1:1 HNO₃ and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10-15 minutes.
 - o 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).
 - Cool sample, add 2mL water and 3 mL 30% H₂O₂. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H₂O₂ until effervescence is minimal.
 - Reduce volume to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C).
 - 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: 09/11/2024	MA: 3226.1	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 HNO₃ 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% H₂O₂. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H₂O₂ until effervescence is minimal.
 - Reduce volume to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C).
 - 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	Use?	# IECs	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				
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: 10/11/2024

OVENTEMP OUT Celsius(°C): 103

Time OUT: 07:33

Out Date: 10/11/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4

Thermometer ID: % SOLID- OVEN

Time IN: 12:35
In Date: 10/10/2024

OVENTEMP IN Celsius(°C): 107

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

OvenID: M OVEN#1

qc:LB132857

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
P4313-01	MYDB23	1	1.14	8.74	9.88	9.68	97.7	
P4313-02	MYDB24	2	1.15	8.57	9.72	9.52	97.7	
P4313-03	MYDB25	3	1.14	8.40	9.54	9.37	98.0	
P4313-04	MYDB26	4	1.16	8.45	9.61	9.44	98.0	
P4313-05	MYDB26D	5	1.16	8.45	9.61	9.44	98.0	
P4313-06	MYDB26S	6	1.16	8.45	9.61	9.44	98.0	
P4313-07	MYDB27	7	1.18	8.44	9.62	9.42	97.6	
P4313-08	MYDB28	8	1.14	8.79	9.93	9.75	98.0	
P4313-09	MYDB29	9	1.15	8.40	9.55	9.36	97.7	
P4313-10	MYDB30	10	1.18	8.33	9.51	9.32	97.7	
P4313-11	MYDB31	11	1.15	8.57	9.72	9.55	98.0	
P4313-12	MYDB32	12	1.17	8.35	9.52	9.37	98.2	
P4313-13	MYDB33	13	1.11	8.66	9.77	9.48	96.7	
P4313-14	MYDB34	14	1.18	8.63	9.81	9.56	97.1	
P4313-15	MYDB35	15	1.18	8.48	9.66	9.47	97.8	
P4313-16	MYDB36	16	1.16	8.76	9.92	9.68	97.3	
P4313-17	MYDB37	17	1.15	8.38	9.53	9.33	97.6	
P4313-18	MYDB38	18	1.18	8.49	9.67	9.47	97.6	
P4313-19	MYDB39	19	1.18	8.45	9.63	9.44	97.8	
P4313-20	MYDB40	20	1.18	8.34	9.52	9.34	97.8	
P4313-21	MYDB41	21	1.18	8.56	9.74	9.38	95.8	
P4313-22	MYDB61	22	1.15	8.80	9.95	9.84	98.8	

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 184307 %1-P4313 WorkList Name:

M. 132857

WorkList Name :	%1-P4313	WorkList ID:	ID: 184307	Department :	Wet-Chemistry	Da	Date: 10-10-20;	10-10-2024 10:31:31
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
P4313-01	MYDB23	Solid	Percent Solids	Cop 1 doc	Pod Loi			
P4313-02	MYDB24	Solid	Percent Solide	000 4 deg 0	OSEPOI	A11	06/20/2024	Chemtech -SO
P4313-03	MYDR25			Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
D4040 04		Blos	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
74513-04	MYDB26	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -So
P4313-05	MYDB26D	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4313-06	MYDB26S	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtach - S.
P4313-07	MYDB27	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chaptach
P4313-08	MYDB28	Solid	Percent Solids	Cool 4 deg C	USEP01	Δ11	700000000	
P4313-09	MYDB29	Solid	Percent Solids	Cool 4 ded C	LISEBO3		00/20/2024	Chemtech -SO
P4313-10	MYDB30	Solid	Percent Solids	0 80 F 1000			06/20/2024	Chemtech -SO
P4313-11	MYDB31	7100	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	o fight loop	USEPUT	A11	06/20/2024	Chemtech -SO
04349 43		DIIDO	rercent solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
21-21-21-21	MYDB3Z	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4313-13	MYDB33	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4313-14	MYDB34	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4313-15	MYDB35	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4313-16	MYDB36	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chamtach
P4313-17	MYDB37	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	do do do do
P4313-18	MYDB38	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chominacin -30
P4313-19	MYDB39	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemitecii -30
P4313-20	MYDB40	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2004	Oc- Inspilled of C
P4313-21	MYDB41	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
Date/Time 1011	10110/24 122.00				DateClime	10110126	121	12.CF
Raw Sample Received by:	Jan 340				e F	Received by:	2	S S S S S S S S S S S S S S S S S S S
Kaw Sample Refinduished by:	6111	-						Н

Page 1 of 2

Raw Sample Relinquished by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 184307 %1-P4313 WorkList Name:

Department: Wet-Chemistry

458281 JM

Date: 10-10-2024 10:31:31

06/20/2024 Chemtech -SO Collect Date Method Raw Sample Storage Location A11 Customer USEP01 Cool 4 deg C Preservative Percent Solids Test Matrix Solid Customer Sample MYDB61 P4313-22 Sample

Date/Time 70110124

121,00

Date/Time 10/10/24 Raw Sample Received by: Raw Sample Relinquished by:

12:40

Raw Sample Received by:

Raw Sample Relinquished by:

Page 2 of 2