SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51772 MA No.: 3225.1,3226.1 SDG No.: MYDB12

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MYDB12	P4318-01	X	X		
MYDB13	P4318-02	X	X		
MYDB14	P4318-03	X	X		
MYDB15	P4318-04	X	X		
MYDB16	P4318-05	X	X		
MYDB18	P4318-06	X	X		
MYDB19	P4318-07	X	X		
MYDB20	P4318-08	X	X		
MYDB21	P4318-09	X	X		
MYDB22	P4318-10	X	X		
MYDB63	P4318-11	X	X		
MYDB64	P4318-12	X	X		
MYDB65	P4318-13	X	X		
MYDB66	P4318-14	X	X		
MYDB67	P4318-15	X	X		
MYDB68	P4318-16	X	X		
MYDB69	P4318-17	X	X		
MYDB70	P4318-18	X	X		
MYDB71	P4318-19	X	X		
MYDB72	P4318-20	X	X		
MYDB72D	P4318-21	X	X		
MYDB72S	P4318-22	X	X		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

USEPA CLP COC (LAB COPY)

DateShipped: 10/3/2024
CarrierName: FedEx
AirbillNo: 7790 0057 6067

CHAIN OF CUSTODY RECORD

Case #: 51772
Cooler #: 51772-078

No: 9-062124-085536-0078
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-3151

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
1108-M-0010-01	MYDB11	Soil/ REAC	Grab	ICP-AES 11(21)	9-5289 (None) (1)	1108-M-0010	06/20/2024 13:52	
1108-A-0004-01	MYDB12	Soil/ REAC	Grab	ICP-AES 11(21)	9-5290 (None) (1)	1108-A-0004	06/20/2024 08:24	1
1108-C-0006-01	MYDB13	Soil/ REAC	Grab	ICP-AES 11(21)	9-5291 (None) (1)	1108-C-0006	06/20/2024 08:25	2
1108-C-0004-01	MYDB14	Soil/ REAC	Grab	ICP-AES 11(21)	9-5292 (None) (1)	1108-C-0004	06/20/2024 08:26	3
1108-A-0005-01	MYDB15	Soil/ REAC	Grab	ICP-AES 11(21)	9-5293 (None) (1)	1108-A-0005	06/20/2024 08:46	4
1108-A-0007-01	MYDB16	Soil/ REAC	Grab	ICP-AES 11(21)	9-5294 (None) (1)	1108-A-0007	06/20/2024 08:28	5
1108-B-0002-03	MYDB17	Soil/ REAC	Grab	ICP-AES 11(21)	9-5295 (None) (1)	1108-B-0002	06/20/2024 08:44	•
1108-C-0005-02	MYDB18	Soil/ REAC	Grab	ICP-AES 11(21)	9-5296 (None) (1)	1108-C-0005	06/20/2024 08:30	6
1108-A-0006-01	MYDB19	Soil/ REAC	Grab	ICP-AES 11(21)	9-5297 (None) (1)	1108-A-0006	06/20/2024 08:30	7
1108-C-0001-01	MYDB20	Soil/ REAC	Grab	ICP-AES 11(21)	9-5298 (None) (1)	1108-C-0001	06/20/2024 08:32	8
1108-C-0007-01	MYDB21	Soil/ REAC	Grab	ICP-AES 11(21)	9-5299 (None) (1)	1108-C-0007	06/20/2024 08:33	9
1108-C-0002-01	MYDB22	Soil/ REAC	Grab	ICP-AES 11(21)	9-5300 (None) (1)	1108-C-0002	06/20/2024 08:34	10

Sample(s) to be used for Lab QC: 1108-B-0002-03 Tag 9-5295 - 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

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SHIP TO LAB	WESTON	10/3/24 1600	R. Melendez	10/4/24 9:39	IR Gun #1 22.3°C
					Custody seal intact
					No Temp / NO ICE

USEPA CLP COC (LAB COPY)

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

CHAIN OF CUSTODY RECORD

Case #: 51772
Cooler #: 51772-079

No: 9-062124-085540-0079
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-3151

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
1108-H-0001-01	MYDB61	Soil/ REAC	Grab	ICP-AES 11(21)	9-5339 (None) (1)	1108-H-0001	06/20/2024 13:32	
1108-H-0012-01	MYDB62	Soil/ REAC	Grab	ICP-AES 11(21)	9-5340 (None) (1)	1108-H-0012	06/20/2024 13:37	
1108-M-0008-01	MYDB63	Soil/ REAC	Grab	ICP-AES 11(21)	9-5341 (None) (1)	1108-M-0008	06/20/2024 13:39	.11
1108-H-0006-01	MYDB64	Soil/ REAC	Grab	ICP-AES 11(21)	9-5342 (None) (1)	1108-H-0006	06/20/2024 13:55	.12
1108-K-0007-01	MYDB65	Soil/ REAC	Grab	ICP-AES 11(21)	9-5343 (None) (1)	1108-K-0007	06/20/2024 14:12	.13
1108-L-0004-01	MYDB66	Soil/ REAC	Grab	ICP-AES 11(21)	9-5344 (None) (1)	1108-L-0004	06/20/2024 14:14	.14
1108-L-0009-01	MYDB67	Soil/ REAC	Grab	ICP-AES 11(21)	9-5345 (None) (1)	1108-L-0009	06/20/2024 14:14	.15
1108-L-0010-01	MYDB68	Soil/ REAC	Grab	ICP-AES 11(21)	9-5346 (None) (1)	1108-L-0010	06/20/2024 14:15	.16
1108-L-0006-01	MYDB69	Soil/ REAC	Grab	ICP-AES 11(21)	9-5347 (None) (1)	1108-L-0006	06/20/2024 14:18	.17
1108-L-0002-01	MYDB70	Soil/ REAC	Grab	ICP-AES 11(21)	9-5348 (None) (1)	1108-L-0002	06/20/2024 14:19	.18
1108-L-0008-01	MYDB71	Soil/ REAC	Grab	ICP-AES 11(21)	9-5349 (None) (1)	1108-L-0008	06/20/2024 14:21	.19
1108-M-0005-01	MYDB72	Soil/ REAC	Grab	ICP-AES 11(21)	9-5350 (None) (1)	1108-M-0005	06/20/2024 14:21	.20 - LC Email

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

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SHIP TO LAB	Olin Warren WESTON	10/3/24 @ 1600	R. Melendez	10/4/24 9:39	IR Gun #1 21.7
					Custody seal intact
					No Temp / no ICE

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Cassandra Rice		Log-in Date 10/4/2024
Received By (Signature)		
Case Number 51772	SDG No. MYDB12	MA No. 3225.1,3226.1

Remarks:	
1. 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.	779000576067 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	22.3 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

	EPA Sample #	Aqueous Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MYDB12	N/A	9-5290	P4318-01	Intact
2	MYDB13	N/A	9-5291	P4318-02	Intact
3	MYDB14	N/A	9-5292	P4318-03	Intact
4	MYDB15	N/A	9-5293	P4318-04	Intact
5	MYDB16	N/A	9-5294	P4318-05	Intact
6	MYDB18	N/A	9-5296	P4318-06	Intact
7	MYDB19	N/A	9-5297	P4318-07	Intact
8	MYDB20	N/A	9-5298	P4318-08	Intact
9	MYDB21	N/A	9-5299	P4318-09	Intact
10	MYDB22	N/A	9-5300	P4318-10	Intact
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		Logbook No.	N/A
Date	10/4/24	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 2
Received By (Print Name) Cesarea Leon		Log-in Date 10/4/2024
Received By (Signature)		
Case Number 51772	SDG No. MYDB12	MA No. 3225.1,3226.1

Remarks:	
1. 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 2
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

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MYDB63	N/A	9-5341	P4318-11	Intact
2	MYDB64	N/A	9-5342	P4318-12	Intact
3	MYDB65	N/A	9-5343	P4318-13	Intact
4	MYDB66	N/A	9-5344	P4318-14	Intact
5	MYDB67	N/A	9-5345	P4318-15	Intact
6	MYDB68	N/A	9-5346	P4318-16	Intact
7	MYDB69	N/A	9-5347	P4318-17	Intact
8	MYDB70	N/A	9-5348	P4318-18	Intact
9	MYDB71	N/A	9-5349	P4318-19	Intact
10	MYDB72	N/A	9-5350	P4318-20	Intact
11	MYDB72D	N/A	9-5350	P4318-21	Intact
12	MYDB72S	N/A	9-5350	P4318-22	Intact
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		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 Group, LLC**		
LAB CODE	**ACE**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**51772**	SDG NO.	**MYDB12**
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: FROM	PAGE NOs: TO	CHECK LAB	CHECK 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	5	✓	
4 . CSF Inventory Sheet (DC-2)	6	8	✓	
5 . SDG Narrative	9	18	✓	
6 . Communication Logs	19	31	✓	
7 . Percent Solids Log	32	34	✓	
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	35	54	✓	
9 . Instrument raw data by instrument in analysis order	55	1068	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	1069	1220	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1221	1222	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1223	1249	✓	
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	1250	1269	✓	
18 . Instrument raw data by instrument in analysis order	1270	2895	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	2896	3036	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	3037	3038	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	3039	3059	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

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

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 2)	3060	3061	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	3062	3064	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	3065	3068	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)		Nimisha Pandya, Document Control Officer	
	(Signature)	(Print Name & Title)	(Date)
Audited by: (EPA)			
	(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MYDB12
CASE # 51772
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4318
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: 22.3^{o}C, 21.7^{o}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: Shipping for this Case is complete, and the Laboratory has not received a sufficient number of designated QC samples to use for SDG MYDB12. The laboratory would like to use sample MYDB72 for Laboratory QC. The sample is not a blank, rinsate, or PE sample. All other samples designated on the COC for Laboratory QC are already used for other SDGs.

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 SFAM01.1 Exhibit A, Section 5.5.4.1, 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.

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):

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

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 MYDB12 For Arsenic:

If C = 0.0703607 ppm
Vf = 100 ml
W = 1.22g
S = 0.969(96.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0703607 \times \frac{100}{1.22 \times 0.969} \times 1$$

$$= 11.90355 \text{ mg/kg}$$

$$= 12 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for ICP-MS Soil Sample:

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

284 Sheffield Street
Mountainside, NJ 07092

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

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)
DF = Dilution Factor

Example Calculation For Sample MYDB12 For Arsenic :

If C = 31.90 ppb
Vf = 500 ml
W = 1.22 g
S = 0.969 (96.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 31.90 \times \frac{500}{1.22 \times 0.969} \times 1 / 1000$$

$$= 13.4920 \text{ mg/kg}$$

= 14 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 Antimony, Manganese, Selenium. Spike sample(MYDB72SRE) did meet requirements except for Silver. Spike sample (MYDB72S)did meet requirements except for 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

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Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
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
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** ☐

The Laboratory shall:

- 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 HNO_3 and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10-15 minutes.
  - Add 5 mL concentrated HNO_3 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% H_2O_2. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H_2O_2 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 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** ☐

The Laboratory shall:

- 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** ☐

The Laboratory shall:

- 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 HNO_3 and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10 -15 minutes.
  - Add 5 mL concentrated HNO_3 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% H_2O_2. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H_2O_2 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** ☐

The Laboratory shall:

- 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
Tl 190.856 {477}	☒	5	Mo	-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}	☒	6	Mo	-0.001480	0.000000	No
			Al	-0.000075	0.000000	No
			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}	☒	3	Fe	-0.000308	0.000000	No
			Mn	0.000470	0.000000	No
			Co	-0.000630	0.000000	No
Sb 206.833 {463}	☒	4	Cr	0.010700	0.000000	No
			V	-0.001168	0.000000	No
			Mo	-0.002850	0.000000	No
			Ni	-0.000440	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.037230	0.000000	No
Ba 493.409 { 68}	☐	None				
Be 234.861 {144}	☒	3	Mo	-0.000320	0.000000	No
			Fe	0.000010	0.000000	No
			Mn	-0.000047	0.000000	No
Cd 214.438 {457}	☒	1	Fe	0.000040	0.000000	No
Ca 373.690 { 90}	☐	None				
Cr 267.716 {126}	☒	1	Mn	0.000160	0.000000	No
Co 228.616 {448}	☒	2	Ti	0.001840	0.000000	No
			Mo	-0.001230	0.000000	No
Cu 324.754 {104}	☒	4	Co	-0.000796	0.000000	No
			Fe	-0.000100	0.000000	No
			Mn	0.000345	0.000000	No
			Ni	0.000895	0.000000	No
Fe 259.837 {130}	☐	None				
Mn 257.610 {131}	☒	1	Ni	0.000897	0.000000	No
Mg 279.079 {121}	☐	None				
Ni 231.604 {446}	☐	None				
Ag 328.068 {103}	☒	3	Fe	-0.000100	0.000000	No
			Mn	0.000146	0.000000	No
			V	-0.000889	0.000000	No
Na 818.326 { 41}	☐	None				
V 292.402 {115}	☒	2	Mo	-0.008480	0.000000	No
			Cr	-0.002220	0.000000	No
Zn 206.200 {464}	☐	None				
Zn 213.856 {158}	☒	1	Ni	0.007280	0.000000	No
K 769.896 { 44}	☐	None				
P 177.495 {490}	☒	2	Ni	0.001640	0.000000	No
			Cu	-0.012530	0.000000	No
B 249.678 {135}	☒	3	Co	0.002880	0.000000	No
			V	-0.002000	0.000000	No
			Fe	-0.001360	0.000000	No
Mo 202.030 {467}	☐	None				
S 182.034 {485}	☒	2	Mo	-0.008000	0.000000	No
			Mn	0.002700	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Si 251.611 {134}	☒	2	Mo	0.010520	0.000000	No
			Ti	0.005650	0.000000	No
Sn 189.989 {478}	☐	None				
Ti 336.121 {100}	☒	1	Ni	-0.001000	0.000000	No
Li 670.784 { 50}	☐	None				
Y 224.306 {450}*	☐	None				
Y 360.073 { 94}*	☐	None				
Y 371.030 { 91}*	☐	None				
Y 224.306 {150}*	☐	None				
In 230.606 {446}*	☐	None				
Sr 407.771 { 83}	☐	None				

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Wednesday, October 09, 2024 12:44 PM
To: Sohil Jodhani; Mohammad Ahmed; Deepak Parmar
Cc: Britz, Helen; Moody, Brett; Myer, Shari; Johnson, Matthew; Bauer, Heather E; Ackerman, Eric; R9RSCC (R9RSCC@epa.gov); carmon.jamie@epa.gov; Spiegel, Michael (he/him/his)
Subject: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL
Attachments: CoC-078.pdf; CoC-079.pdf; CoC-081.pdf; CoC-132.pdf

Updated Record of Communication
This ROC is being updated to include Region 9.

Good afternoon,

Please see the resolution below.

Issue: Shipping for this Case is complete, and the Laboratory has not received a sufficient number of designated QC samples to use for SDG MYDB12. The laboratory would like to use sample MYDB72 for Laboratory QC. The sample is not a blank, rinsate, or PE sample. All other samples designated on the COC for Laboratory QC are already used for other SDGs.
Resolution: Per SFAM01.1 Exhibit A, Section 5.5.4.1, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please note that the laboratory may contact the appropriate CLP PM 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
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

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information technology

From: Hairston, Miles (NE)
Sent: Wednesday, October 9, 2024 12:13 PM
To: sohil.jodhani@alliancetg.com; mohammad.ahmed@alliancetg.com; deepak.parmar@alliancetg.com
Cc: Britz, Helen <Britz.Helen@epa.gov>; Moody, Brett <Moody.Brett@epa.gov>; Myer, Shari <Myer.Shari@epa.gov>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Ackerman, Eric <Eric.Ackerman@WestonSolutions.com>
Subject: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

Good afternoon,

Please see the resolution below.

Issue: Shipping for this Case is complete, and the Laboratory has not received a sufficient number of designated QC samples to use for SDG MYDB12. The laboratory would like to use sample MYDB72 for Laboratory QC. The sample is not a blank, rinsate, or PE sample. All other samples designated on the COC for Laboratory QC are already used for other SDGs.
Resolution: Per SFAM01.1 Exhibit A, Section 5.5.4.1, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please note that the laboratory may contact the appropriate CLP PM 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
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

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This electronic message transmission contains information from GDIT that may be attorney-client privileged, proprietary or confidential. The information in this message is intended only for use by the individual(s) to whom it is addressed. If you believe you have received this message in error, please contact me immediately and be aware that any use, disclosure, copying or distribution of the contents of this message is strictly prohibited. NOTE: Regardless of content, this email shall not operate to bind GDIT to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of email for such purpose.

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Wednesday, October 9, 2024 10:21 AM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>; Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: RE: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

Good morning,

Yes .

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Wednesday, October 9, 2024 10:17 AM
To: Deepak Parmar <Deepak.Parmar@alliancetg.com>; Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

Good morning,

Would the laboratory still be able to use sample MYDB72 as the Laboratory QC sample.

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
15036 Conference Center Drive
Chantilly, VA 20151

www.gdit.com

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From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Wednesday, October 9, 2024 9:36 AM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>; Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Cc: R9RSCC (R9RSCC@epa.gov) <R9RSCC@epa.gov>; carmon.jamie@epa.gov; Spiegel, Michael (he/him/his) <Spiegel.Michael@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Moody, Brett <Moody.Brett@epa.gov>; Myer, Shari <Myer.Shari@epa.gov>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Ackerman, Eric <Eric.Ackerman@WestonSolutions.com>
Subject: RE: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

Good morning,

Regarding Issue 2 Lab use all qc sample mentioned on COC, still Lab have SDG MYDB12 without Lab QC.

Thanks & Regards,

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com AST AEM AAS

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Tuesday, October 8, 2024 5:03 PM
To: Sohil Jodhani <sohil.jodhani@alliancetg.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>; Deepak Parmar <deepak.parmar@alliancetg.com>
Cc: R9RSCC (R9RSCC@epa.gov) <R9RSCC@epa.gov>; carmon.jamie@epa.gov; Spiegel, Michael (he/him/his) <Spiegel.Michael@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Moody, Brett <Moody.Brett@epa.gov>; Myer, Shari <Myer.Shari@epa.gov>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Ackerman, Eric <Eric.Ackerman@WestonSolutions.com>
Subject: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

Good afternoon,

Please see the resolutions below.

Issue 1: Samples were shipped to the laboratory on 10/3/2024 for Case 51772. The samples are scheduled for ICP-AES and ICP-MS analysis. However, the COCs sent to the laboratory only list ICP-AES analysis. Updated copies of the COCs will need to be provided to the laboratory.
Resolution 1: Per Region 9, updated COCs that list ICP-MS and ICP-AES are attached. The laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 2: The laboratory has one SDG, MYDB12, that was received for ICP-AES and ICP-MS analysis and requires Laboratory QC. However, a sample was not designated on the COC for Laboratory QC. The laboratory would like to use sample MYDB72 for Laboratory QC. The sample is not a blank, rinsate, or PE sample. All other samples listed on the COC for Laboratory QC are already used for other SDGs. Can the Region confirm when the next sample shipment will be sent to the laboratory.
Resolution 2: Per Region 9, the shipment delivered to the laboratory on 10/7/2024 should include additional Laboratory QC samples. The laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please note that the laboratory may contact the appropriate CLP PM 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
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

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From: R9RSCC <R9RSCC@epa.gov>
Sent: Tuesday, October 8, 2024 1:48 PM

To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: R9RSCC <R9RSCC@epa.gov>
Subject: FW: [EXT]:FW: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC

This Message Is From an External Sender

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

Hi Miles,

The COC's are updated and uploaded to the CLPSS portal for the ICP-MS analysis.

Thanks
-Jamie
Jamie Carmon (she/her)
****
Region 9
RSCC (Regional Sample Control Coordinator)
Email: R9RSCC@epa.gov
The R9 lab will be closed Monday, October 14th in observance of the Federal holiday.

- The lab will resume normal hours October 15th.

From: Guijarro, Carolina <Carolina.Guijarro@WestonSolutions.com>
Sent: Tuesday, October 8, 2024 10:38 AM
To: R9RSCC <R9RSCC@epa.gov>; t.a.walzer@westonsolutions.com; Leatherbury, Ryan <Ryan.leatherbury@westonsolutions.com>; Rodriguez, Anthony <anthony.rodriguez@westonsolutions.com>; Grossman, Scott <grossman.scott@epa.gov>
Subject: RE: [EXT]:FW: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC

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

Hi Jamie,
CoC's 78 & 79 are now updated and uploaded to the CLP site.

Kind regards,

Carolina Guijarro
Associate Scientist 3
(737) 781-6676 carolina.guijarro@WestonSolutions.com
Committed to Creating a Better Tomorrow
Weston Solutions, 2600 Dallas Pkwy Suite 280, Frisco, TX 75034

From: R9RSCC <R9RSCC@epa.gov>
Sent: Tuesday, October 8, 2024 12:07 PM
To: Guijarro, Carolina <Carolina.Guijarro@WestonSolutions.com>; Walzer, Thomas <T.A.Walzer@WestonSolutions.com>; Leatherbury, Ryan <Ryan.Leatherbury@WestonSolutions.com>; Rodriguez, Anthony <Anthony.Rodriguez@WestonSolutions.com>; Grossman, Scott <grossman.scott@epa.gov>
Cc: R9RSCC <R9RSCC@epa.gov>
Subject: [EXT]:FW: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC

Hi Carolina,

CLP is still missing ICP-MS analysis for COC's 78 and 79.
Please upload those to the portal.

Thanks!
-Jamie
Jamie Carmon (she/her)
****
Region 9
RSCC (Regional Sample Control Coordinator)
Email: R9RSCC@epa.gov

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Tuesday, October 8, 2024 9:27 AM
To: R9RSCC <R9RSCC@epa.gov>; Carmon, Jamie (she/her/hers) <Carmon.Jamie@epa.gov>; Spiegel, Michael (he/him/his) <Spiegel.Michael@epa.gov>
Cc: Britz, Helen <Britz.Helen@epa.gov>; Moody, Brett <Moody.Brett@epa.gov>; Myer, Shari <Myer.Shari@epa.gov>; Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Eric.Ackerman@WestonSolutions.com
Subject: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC

Good afternoon,

The attached COCs 78 and 79 still only list the ICP-AES analysis. Can the Region confirm if the updated COCs are available?

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
15036 Conference Center Drive
Chantilly, VA 20151

www.gdit.com

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From: R9RSCC <R9RSCC@epa.gov>
Sent: Monday, October 7, 2024 7:30 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: R9RSCC <R9RSCC@epa.gov>
Subject: FW: [EXT]:FW: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC

Hi Miles,

Please review the message below.
I believe this solves the missing ICP-MS COC and the QC samples.
42 samples were shipped Friday for Monday delivery (10/7). After these samples are received, the case is complete.

Let me know if the lab needs anything else.
Thanks
-Jamie
Jamie Carmon (she/her)
****
Region 9
RSCC (Regional Sample Control Coordinator)
Email: R9RSCC@epa.gov
The R9 lab will be closed Monday, October 14th in observance of the Federal holiday.

- The lab will resume normal hours October 15th.

From: Guijarro, Carolina <Carolina.Guijarro@WestonSolutions.com>
Sent: Monday, October 7, 2024 3:46 PM
To: R9RSCC <R9RSCC@epa.gov>; t.a.walzer@westonsolutions.com; Leatherbury, Ryan <Ryan.leatherbury@westonsolutions.com>; Rodriguez, Anthony <anthony.rodriguez@westonsolutions.com>; Grossman, Scott <grossman.scott@epa.gov>
Cc: Lawrence, Anne <Lawrence.Anne@epa.gov>
Subject: RE: [EXT]:FW: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC

Hi Jamie,
Thank you so much for all the work you do on this project, we really appreciate it.
Here's the current status of the shipments and the updates to the COCs:

- COC 132 (rinsate samples, 7 in total) was shipped on Monday, 10/07/2024, for delivery on Tuesday, 10/08/2024.
- COC 81 (soil samples, 42 in total) was shipped on Friday, 10/04/2024, for delivery on Monday, 10/07/2024.
- I have corrected COCs 78 and 79 to include the ICP-MS analysis as requested and submitted the updated chains of custody for both, as well as for COC 132 (rinsate samples) and COC 81 (residential soil samples) into the CLP portal. I've also attached the updated COCs to this email for your convenience.

These two shipments (COC 132 and COC 81) together account for the remaining 49 samples, which should close out this case upon receipt at the lab, as it was our last sample shipment.
Regarding the laboratory QC sample for the second SDG, could you please clarify which specific sample is missing? I want to make sure we address the issue properly.
Please let me know if you need any further information.
Best regards,

Carolina Guijarro
Associate Scientist 3
(737) 781-6676 carolina.guijarro@WestonSolutions.com
Committed to Creating a Better Tomorrow
Weston Solutions, 2600 Dallas Pkwy Suite 280, Frisco, TX 75034

From: R9RSCC <R9RSCC@epa.gov>
Sent: Monday, October 7, 2024 4:50 PM
To: Guijarro, Carolina <Carolina.Guijarro@WestonSolutions.com>; Walzer, Thomas <T.A.Walzer@WestonSolutions.com>; Leatherbury, Ryan <Ryan.Leatherbury@WestonSolutions.com>; Rodriguez, Anthony <Anthony.Rodriguez@WestonSolutions.com>; Grossman, Scott <grossman.scott@epa.gov>
Cc: R9RSCC <R9RSCC@epa.gov>; Lawrence, Anne <Lawrence.Anne@epa.gov>
Subject: [EXT]:FW: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC

Hi Carolina,

Following up on the email below.
Please update the COC to include the ICP-MS analysis.
Additionally, the laboratory is missing a sample for laboratory QC for the second SDG.
Please confirm this case is complete, or if you plan to send 49 more samples.

Let me know how you would like to proceed.
Thanks
-Jamie
Jamie Carmon (she/her)
****

Region 9
RSCC (Regional Sample Control Coordinator)
Email: R9RSCC@epa.gov
The R9 lab will be closed Monday, October 14th in observance of the Federal holiday.

- The lab will resume normal hours October 15th.

From: Hairston, Miles (NE)
Sent: Monday, October 7, 2024 3:14 PM
To: R9RSCC (R9RSCC@epa.gov) R9RSCC@epa.gov; carmon.jamie@epa.gov; Spiegel, Michael (he/him/his) Spiegel.Michael@epa.gov
Cc: Britz, Helen Britz.Helen@epa.gov; Moody, Brett Moody.Brett@epa.gov; Myer, Shari Myer.Shari@epa.gov; Bauer, Heather E Heather.Bauer@gdit.com; Johnson, Matthew Matthew.Johnson32@gdit.com; Ackerman, Eric Eric.Ackerman@WestonSolutions.com
Subject: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC

Good afternoon,

I would like to follow up on the email below. Can the Region confirm when the next sample shipment will be sent to the laboratory for Case 51772, as the laboratory is missing a sample for laboratory QC for the second SDG. In addition, can the Region confirm if the samples received by the laboratory on 10/4/2024 should be analyzed for both ICP-MS and ICP-AES as scheduled. The COC only lists ICP-AES as the analysis.

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
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: October 14 and October 21 - 22

GENERAL DYNAMICS
information technology

From: R9RSCC <R9RSCC@epa.gov>
Sent: Friday, October 4, 2024 3:00 PM
To: Guijarro, Carolina <carolina.guijarro@WestonSolutions.com>; t.a.walzer@westonsolutions.com; Leatherbury, Ryan <Ryan.leatherbury@westonsolutions.com>; Rodriguez, Anthony <anthony.rodriguez@westonsolutions.com>; Eric.Ackerman@WestonSolutions.com

Cc: Grossman, Scott <grossman.scott@epa.gov>; R9RSCC <R9RSCC@epa.gov>
Subject: FW: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC

Hi Caroline,
Please review the email from CLP below.
I think you are still missing one ICP-MS COC (pdf attached). Please upload the COC to CLPSS Portal.
Also, the lab is missing a sample for lab QC for the second SDG.

You said in the attached message that the shipping for this case was complete, but you can send 49 more samples.
Would you like to send more samples or should I close this case?
Let me know how you would like to proceed!

-Jamie
Jamie Carmon (she/her)
****
Region 9
RSCC (Regional Sample Control Coordinator)
Email: R9RSCC@epa.gov
The R9 lab will be closed Monday, October 14th in observance of the Federal holiday.

- The lab will resume normal hours October 15th.

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Friday, October 4, 2024 2:01 PM
To: R9RSCC <R9RSCC@epa.gov>; Carmon, Jamie (she/her/hers) <Carmon.Jamie@epa.gov>; Spiegel, Michael (he/him/his) <Spiegel.Michael@epa.gov>
Cc: Britz, Helen <Britz.Helen@epa.gov>; Moody, Brett <Moody.Brett@epa.gov>; Myer, Shari <Myer.Shari@epa.gov>; Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Eric.Ackerman@WestonSolutions.com
Subject: Region 09 | Case 51772 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC

Good evening,

Can the Region confirm when the next sample shipment will be sent to the laboratory for Case 51772, as the laboratory is missing a sample for laboratory QC for the second SDG. In addition, can the Region confirm if the samples received by the laboratory on 10/4/2024 should be analyzed for both ICP-MS and ICP-AES as scheduled. The COC only lists ICP-AES as the analysis.

Thanks,
Miles Hairston
Associate Environmental Analyst
Under contract to EPA
QSS Coordinator – EPA Regions 1, 8, 7, and 9

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Chantilly, VA 20151

www.gdit.com

Leave alert: October 14 and October 21 - 22

GENERAL DYNAMICS
information technology

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Friday, October 4, 2024 2:52 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 09 | Case 51772 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC/QC

Good afternoon,

Lab has one open SDG MYDB12 without Lab QC for ICP-MS and ICP-AES , however a sample was not designated Lab Like to use sample MYDB72. this sample are not PE or Blank. All samples are mentioned on COC already use for other SDGs.

Please see attachment for your reference.

Thanks & Regards,

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com AST AEM AAS

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PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/10/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:50
In Date: 10/09/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 10/10/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB132844

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
P4318-01	MYDB12	1	1.15	8.65	9.8	9.53	96.9	
P4318-02	MYDB13	2	1.17	8.40	9.57	9.44	98.5	
P4318-03	MYDB14	3	1.15	8.74	9.89	9.69	97.7	
P4318-04	MYDB15	4	1.15	8.50	9.65	9.5	98.2	
P4318-05	MYDB16	5	1.17	8.40	9.57	9.35	97.4	
P4318-06	MYDB18	6	1.18	8.46	9.64	9.44	97.6	
P4318-07	MYDB19	7	1.16	8.50	9.66	9.47	97.8	
P4318-08	MYDB20	8	1.18	8.54	9.72	9.62	98.8	
P4318-09	MYDB21	9	1.15	8.48	9.63	9.39	97.2	
P4318-10	MYDB22	10	1.15	8.57	9.72	9.41	96.4	
P4318-11	MYDB63	11	1.15	8.37	9.52	9.18	95.9	
P4318-12	MYDB64	12	1.12	8.76	9.88	9.7	97.9	
P4318-13	MYDB65	13	1.15	8.40	9.55	9.26	96.5	
P4318-14	MYDB66	14	1.15	8.65	9.8	9.52	96.8	
P4318-15	MYDB67	15	1.17	8.65	9.82	9.61	97.6	
P4318-16	MYDB68	16	1.14	8.40	9.54	9.32	97.4	
P4318-17	MYDB69	17	1.14	8.40	9.54	9.3	97.1	
P4318-18	MYDB70	18	1.17	8.50	9.67	9.38	96.6	
P4318-19	MYDB71	19	1.16	8.50	9.66	9.44	97.4	
P4318-20	MYDB72	20	1.17	8.54	9.71	9.41	96.5	
P4318-21	MYDB72D	21	1.17	8.54	9.71	9.41	96.5	
P4318-22	MYDB72S	22	1.17	8.54	9.71	9.41	96.5	

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

WORKLIST(Hardcopy Internal Chain)

VB132844

WorkList Name : %1-p4318 **WorkList ID :** 184276 **Department :** Wet-Chemistry **Date :** 10-09-2024 12:14:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4318-01	MYDB12	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-02	MYDB13	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-03	MYDB14	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-04	MYDB15	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-05	MYDB16	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-06	MYDB18	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-07	MYDB19	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-08	MYDB20	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-09	MYDB21	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-10	MYDB22	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-11	MYDB63	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-12	MYDB64	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-13	MYDB65	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-14	MYDB66	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-15	MYDB67	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-16	MYDB68	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-17	MYDB69	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-18	MYDB70	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-19	MYDB71	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-20	MYDB72	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO
P4318-21	MYDB72D	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO

Date/Time 10/09/24 12:25

Raw Sample Received by: JD WOC

Raw Sample Relinquished by: CP

Date/Time 10/09/24 14:00

Raw Sample Received by: CP

Raw Sample Relinquished by: JD WOC

WORKLIST(Hardcopy Internal Chain)

JB 132844

WorkList Name : %1-p4318 **WorkList ID :** 184276 **Department :** Wet-Chemistry **Date :** 10-09-2024 12:14:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4318-22	MYDB72S	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/20/2024	Chemtech -SO

Date/Time 10/09/24 12:25

Raw Sample Received by: SD WOLC

Raw Sample Relinquished by: CR SM

Date/Time 10/09/24 14:10C

Raw Sample Received by: CR SM

Raw Sample Relinquished by: SD WOLC