SDG COVER PAGE

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

Lab Code: ACE Case No.: 51495 MA No.: 3221.2 SDG No.: MYD4H1

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MYD430	P2791-01		X		
MYD430D	P2791-02		X		
MYD430S	P2791-03		X		
MYD4H1	P2791-04		X		
MYD4H2	P2791-05		X		
MYD4H4	P2791-06		X		
MYD4H5	P2791-07		X		
MYD4H6	P2791-08		X		
MYD4H7	P2791-09		X		
MYD4H9	P2791-10		X		
MYD4J0	P2791-11		X		
MYD4J1	P2791-12		X		
MYD4J2	P2791-13		X		
MYD4J3	P2791-14		X		
MYD4J4	P2791-15		X		
MYD4J5	P2791-16		X		
MYD4J6	P2791-17		X		
MYD4J7	P2791-18		X		
MYD4J9	P2791-19		X		
MYD4K0	P2791-20		X		
MYD4K1	P2791-21		X		
MYD4K2	P2791-22		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: 6/6/2024
CarrierName: FedEx
AirbillNo: 7767 1585 3376

CHAIN OF CUSTODY RECORD

Case #: 51495
Cooler #: 51495-057

No: 9-060524-100843-0057
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
2119A_2119B-U-00002-01	MYD424	Soil/ REAC	Grab	ICP-AES 11(21)	9-3332 (None) (1)	2119A_2119B-U-00002	06/04/2024 08:45	
2119A_2119B-J-00009-03	MYD425	Soil/ REAC	Grab	ICP-AES 11(21)	9-3333 (None) (1)	2119A_2119B-J-00009	06/04/2024 15:12	*
2119A_2119B-J-00006-01	MYD426	Soil/ REAC	Grab	ICP-AES 11(21)	9-3334 (None) (1)	2119A_2119B-J-00006	06/04/2024 15:11	
2119A_2119B-J-00005-01	MYD427	Soil/ REAC	Grab	ICP-AES 11(21)	9-3335 (None) (1)	2119A_2119B-J-00005	06/04/2024 15:06	
2119A_2119B-J-00001-01	MYD428	Soil/ REAC	Grab	ICP-AES 11(21)	9-3336 (None) (1)	2119A_2119B-J-00001	06/04/2024 15:04	
2119A_2119B-J-00007-01	MYD429	Soil/ REAC	Grab	ICP-AES 11(21)	9-3337 (None) (1)	2119A_2119B-J-00007	06/04/2024 15:01	
2119A_2119B-G-00007-03	MYD430	Soil/ REAC	Grab	ICP-AES 11(21)	9-3338 (None) (1)	2119A_2119B-G-00007	06/04/2024 14:59	* 1-QL
2119A_2119B-J-00004-01	MYD431	Soil/ REAC	Grab	ICP-AES 11(21)	9-3339 (None) (1)	2119A_2119B-J-00004	06/04/2024 14:57	
2119A_2119B-G-00002-01	MYD432	Soil/ REAC	Grab	ICP-AES 11(21)	9-3340 (None) (1)	2119A_2119B-G-00002	06/04/2024 14:58	
2119A_2119B-G-00005-01	MYD433	Soil/ REAC	Grab	ICP-AES 11(21)	9-3341 (None) (1)	2119A_2119B-G-00005	06/04/2024 14:28	

Sample(s) to be used for Lab QC: 2119A_2119B-J-00009-03 Tag 9-3333, 2119A_2119B-G-00007-03 Tag 9-3338 - Special Instructions: ICP-AES 11+ Metals: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, 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	Carolina Cuyamo Weston	06/6/2024 15:00		6-7-24 0920	23.2°C IR GUN #1
					custody seals intact
					NO Temp BLK

USEPA CLP COC (LAB COPY)
DateShipped: 6/7/2024
CarrierName: FedEx
AirbillNo: 7767 4270 8250

CHAIN OF CUSTODY RECORD

Case #: 51495
Cooler #: 51495-060

No: 9-060624-113919-0060
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
2118-F-00005-01	MYD4F7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3465 (None) (1)	2118-F-00005	06/05/2024 14:02	
2118-B-00004-01	MYD4F8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3466 (None) (1)	2118-B-00004	06/05/2024 14:17	
2118-G-00004-02	MYD4F9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3467 (None) (1)	2118-G-00004	06/05/2024 15:02	
2118-G-00004-01	MYD4G0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3468 (None) (1)	2118-G-00004	06/05/2024 15:02	
2118-J-00007-01	MYD4G1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3469 (None) (1)	2118-J-00007	06/05/2024 15:01	
2118-G-00002-01	MYD4G2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3470 (None) (1)	2118-G-00002	06/05/2024 15:00	
2118-G-00006-01	MYD4G3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3471 (None) (1)	2118-G-00006	06/05/2024 14:59	
2118-A-00005-01	MYD4G4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3472 (None) (1)	2118-A-00005	06/05/2024 14:09	
2118-B-00009-01	MYD4G5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3473 (None) (1)	2118-B-00009	06/05/2024 14:18	
2118-F-00006-03	MYD4G6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3474 (None) (1)	2118-F-00006	06/05/2024 13:46	
2118-H-00005-01	MYD4G7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3475 (None) (1)	2118-H-00005	06/05/2024 14:16	
2118-B-00010-01	MYD4G8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3476 (None) (1)	2118-B-00010	06/05/2024 14:14	
2118-F-00010-01	MYD4G9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3477 (None) (1)	2118-F-00010	06/05/2024 14:14	
2118-B-00007-01	MYD4H0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3478 (None) (1)	2118-B-00007	06/05/2024 14:12	1
2118-F-00002-01	MYD4H1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3479 (None) (1)	2118-F-00002	06/05/2024 14:12	1
2118-H-00007-01	MYD4H2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3480 (None) (1)	2118-H-00007	06/05/2024 14:10	2
2118-G-00005-03	MYD4H3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3481 (None) (1)	2118-G-00005	06/05/2024 14:57	
2118-M-00009-01	MYD4H4	Soil/ ERT	Grab	ICP-AES 11(21)	9-3482 (None) (1)	2118-M-00009	06/05/2024 11:34	3
2118-L-00008-01	MYD4H5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3483 (None) (1)	2118-L-00008	06/05/2024 10:58	4

Sample(s) to be used for Lab QC: 2118-F-00006-03 Tag 9-3474, 2118-G-00005-03 Tag 9-3481 - Special Instructions: ICP-AES 11+ Metals: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, 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	Carolina Cuyarro Weston	6/7/2024 15:00		854 6/10/24	ZR Cooler #1 23.1 C
					Custody Seal Intact
					No Temp Blank

USEPA CLP COC (LAB COPY)
DateShipped: 6/7/2024
CarrierName: FedEx
AirbillNo: 7767 4270 8250

CHAIN OF CUSTODY RECORD

Case #: 51495
Cooler #: 51495-060

No: 9-060624-113919-0060
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
2118-L-00002-01	MYD4H6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3484 (None) (1)	2118-L-00002	06/05/2024 11:00	✓ 5
2118-K-00003-01	MYD4H7	Soil/ ERT	Grab	ICP-AES 11(21)	9-3485 (None) (1)	2118-K-00003	06/05/2024 11:05	✓ 6
2118-K-00004-01	MYD4H9	Soil/ ERT	Grab	ICP-AES 11(21)	9-3487 (None) (1)	2118-K-00004	06/05/2024 11:09	✓ 7
2118-K-00007-01	MYD4J0	Soil/ ERT	Grab	ICP-AES 11(21)	9-3488 (None) (1)	2118-K-00007	06/05/2024 11:00	✓ 8
2118-L-00007-01	MYD4J1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3489 (None) (1)	2118-L-00007	06/05/2024 11:02	✓ 9
2118-N-00008-01	MYD4J2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3490 (None) (1)	2118-N-00008	06/05/2024 11:12	✓ 10
2118-N-00005-01	MYD4J3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3491 (None) (1)	2118-N-00005	06/05/2024 11:12	✓ 11
2118-N-00004-01	MYD4J4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3492 (None) (1)	2118-N-00004	06/05/2024 11:15	✓ 12
2118-N-00001-01	MYD4J5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3493 (None) (1)	2118-N-00001	06/05/2024 11:17	✓ 13
2118-N-00003-01	MYD4J6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3494 (None) (1)	2118-N-00003	06/05/2024 11:21	✓ 14
2118-N-00006-01	MYD4J7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3495 (None) (1)	2118-N-00006	06/05/2024 11:23	✓ 15
2118-N-00007-03	MYD4J8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3496 (None) (1)	2118-N-00007	06/05/2024 11:19	•
2118-M-00007-01	MYD4J9	Soil/ ERT	Grab	ICP-AES 11(21)	9-3497 (None) (1)	2118-M-00007	06/05/2024 11:56	✓ 16
2118-B-00005-01	MYD4K0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3498 (None) (1)	2118-B-00005	06/05/2024 13:44	✓ 17
2118-B-00008-01	MYD4K1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3499 (None) (1)	2118-B-00008	06/05/2024 13:40	✓ 18
2118-B-00003-01	MYD4K2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3500 (None) (1)	2118-B-00003	06/05/2024 13:39	✓ 19
2118-F-00003-01	MYD4K3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3501 (None) (1)	2118-F-00003	06/05/2024 13:39	✓ 20
2118-B-00006-01	MYD4K4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3502 (None) (1)	2118-B-00006	06/05/2024 13:35	
2118-M-00002-01	MYD4K5	Soil/ ERT	Grab	ICP-AES 11(21)	9-3503 (None) (1)	2118-M-00002	06/05/2024 11:25	

Sample(s) to be used for Lab QC: 2118-N-00007-03 Tag 9-3496 - Special Instructions: ICP-AES 11+ Metals: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, 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

6/4/2024 CC

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Ship to Lab	Carolina Cuyamo Weston	6/7/2024 15:00	CL	854 6/10/24	IRC #1 23.1°C
					Custody Seal Intact
					no temp BLNK

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 2
Received By (Print Name) Bonse Mechon		Log-in Date **6/7/2024**
Received By (Signature)		
Case Number 51495	SDG No. MYD430 & MYD4H1	MA No. 3208.0 & 3221.2

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.	776715853376 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	23.2 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	06/07/2024
12.Time Received	09:20

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MYD430	N/A	9-3338	P2791-01	Intact
2	MYD430D	N/A	9-3338	P2791-02	Intact
3	MYD430S	N/A	9-3338	P2791-03	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/10/24	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) Cassanova Reina		Log-in Date **6/10/2024**
Received By (Signature)		
Case Number 51495	SDG No. MYD430 & MYD4H1	MA No. 3208.0 & 3221.2

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.	776742708250 2
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	23.1 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	06/10/2024
12. Time Received	08:54

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MYD4H1	N/A	9-3479	P2791-04	Intact
2	MYD4H2	N/A	9-3480	P2791-05	Intact
3	MYD4H4	N/A	9-3482	P2791-06	Intact
4	MYD4H5	N/A	9-3483	P2791-07	Intact
5	MYD4H6	N/A	9-3484	P2791-08	Intact
6	MYD4H7	N/A	9-3485	P2791-09	Intact
7	MYD4H9	N/A	9-3487	P2791-10	Intact
8	MYD4J0	N/A	9-3488	P2791-11	Intact
9	MYD4J1	N/A	9-3489	P2791-12	Intact
10	MYD4J2	N/A	9-3490	P2791-13	Intact
11	MYD4J3	N/A	9-3491	P2791-14	Intact
12	MYD4J4	N/A	9-3492	P2791-15	Intact
13	MYD4J5	N/A	9-3493	P2791-16	Intact
14	MYD4J6	N/A	9-3494	P2791-17	Intact
15	MYD4J7	N/A	9-3495	P2791-18	Intact
16	MYD4J9	N/A	9-3497	P2791-19	Intact
17	MYD4K0	N/A	9-3498	P2791-20	Intact
18	MYD4K1	N/A	9-3499	P2791-21	Intact
19	MYD4K2	N/A	9-3500	P2791-22	Intact
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	6/10/24	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.	**51495**	SDG NO.	**MYD4H1**
MA NO.	**3208.0,3221.2**	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	4	✓	
3 . Sample Log-In Sheet (DC-1)	5	6	✓	
4 . CSF Inventory Sheet (DC-2)	7	9	✓	
5 . SDG Narrative	10	14	✓	
6 . Communication Logs	15	18	✓	
7 . Percent Solids Log	19	21	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	22	41	✓	
18 . Instrument raw data by instrument in analysis order	42	2375	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	2376	2522	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	2523	2524	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2525	2545	✓	
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)	2546	2547	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	2548	2550	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	2551	2552	✓	
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 # MYD4H1
CASE # 51495
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID #P2791
MODIFIED ANALYSIS#3221.2

A. Number of Samples and Date of Receipt

20 Soil sample were delivered to the laboratory intact on 06/07/2024, 06/10/2024.

B. Parameters

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: 23.2^{o}C, 23.1^{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: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.

E. Corrective Action taken for above:

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

Resolution 2: Per Region 9, Case 51495 is for metals. There are no rinsates in those cooler so they don't require ice. The laboratory should 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:

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

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

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 MYD430 For Arsenic:

If C = 23.60 ppb
Vf = 500 ml
W = 1.30 g
S = 0.974(97.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 23.60 \times \frac{500}{1.30 \times 0.974} \times 1 / 1000$$

$$= 9.31922 \text{ mg/kg}$$

$$= 9.3 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample

284 Sheffield Street
Mountainside, NJ 07092

did meet requirements. 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
Copper	45Sc
Lead	209Bi
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

Date: 09/04/2024	**MA:** 3221.1	**Title:** ICP-MS Re-Digestion and Re-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 re-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 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.
  - 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.
- The 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.

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Monday, June 10, 2024 3:37 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: R9RSCC (R9RSCC@epa.gov); carmon.jamie@epa.gov; Spiegel, Michael (he/him/his)
Subject: Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature | FINAL

Good afternoon,

Please advise on the issue below.

Issue: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.
Resolution: Per Region 9, Case 51495 is for metals. There are no rinsates in those cooler so they don't require ice. The laboratory should note the issue in the SDG narrative and proceed with the analysis of the samples.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

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

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A

From: R9RSCC <R9RSCC@epa.gov>
Sent: Monday, June 10, 2024 3:23 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: R9RSCC <R9RSCC@epa.gov>
Subject: RE: Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature

This Message Is From an External Sender

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

Hi Miles,

Case 51495 is for metals. The client said there are no rinsates in those cooler so they don't require ice.
Please have the lab proceed with analysis.

Thanks
-Jamie
Jamie Carmon (she/her)
****
Region 9
RSCC (Regional Sample Control Coordinator)
Phone: 510-412-2389
Email: R9RSCC@epa.gov

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Monday, June 10, 2024 11:35 AM
To: R9RSCC <R9RSCC@epa.gov>; Carmon, Jamie (she/her/hers) <Carmon.Jamie@epa.gov>; Spiegel, Michael (he/him/his) <Spiegel.Michael@epa.gov>
Subject: Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature

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

Good afternoon,

Please advise on the issue below.

Issue: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.

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

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A

GENERAL DYNAMICS
information technology

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, June 10, 2024 1:54 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: RE: Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

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

Good afternoon,

the temperature of the cooler upon arrival is 24.2,23.2,23.8,24.1,26.1 without ice .

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: Monday, June 10, 2024 1:46 PM
To: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

What was the temperature of the cooler upon arrival?

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

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A

GENERAL DYNAMICS
information technology

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, June 10, 2024 1:06 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Good morning ,

Sample received for Case 51495 without ice ,there for lab like to confirm that can lab proceed with the analysis of the sample ?

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

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/11/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:50
In Date: 06/10/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:47
Out Date: 06/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB131161

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
P2791-01	MYD430	1	1.15	8.35	9.5	9.28	97.4	
P2791-02	MYD430D	2	1.15	8.35	9.5	9.28	97.4	
P2791-03	MYD430S	3	1.15	8.35	9.5	9.28	97.4	
P2791-04	MYD4H1	4	1.18	8.56	9.74	9.65	98.9	
P2791-05	MYD4H2	5	1.18	8.57	9.75	9.66	98.9	
P2791-06	MYD4H4	6	1.18	8.31	9.49	9.31	97.8	
P2791-07	MYD4H5	7	1.16	8.59	9.75	9.56	97.8	
P2791-08	MYD4H6	8	1.18	8.47	9.65	9.51	98.3	
P2791-09	MYD4H7	9	1.18	8.68	9.86	9.55	96.4	
P2791-10	MYD4H9	10	1.15	8.65	9.8	9.63	98.0	
P2791-11	MYD4J0	11	1.18	8.53	9.71	9.56	98.2	
P2791-12	MYD4J1	12	1.12	8.80	9.92	9.8	98.6	
P2791-13	MYD4J2	13	1.16	8.61	9.77	9.43	96.1	
P2791-14	MYD4J3	14	1.14	8.53	9.67	9.46	97.5	
P2791-15	MYD4J4	15	1.18	8.42	9.6	9.44	98.1	
P2791-16	MYD4J5	16	1.13	8.79	9.92	9.56	95.9	
P2791-17	MYD4J6	17	1.2	8.35	9.55	9.36	97.7	
P2791-18	MYD4J7	18	1.15	8.58	9.73	9.5	97.3	
P2791-19	MYD4J9	19	1.18	8.75	9.93	9.66	96.9	
P2791-20	MYD4K0	20	1.2	8.36	9.56	9.3	96.9	
P2791-21	MYD4K1	21	1.2	8.43	9.63	9.34	96.6	
P2791-22	MYD4K2	22	1.18	8.41	9.59	9.24	95.8	

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

WORKLIST(Hardcopy Internal Chain)

WB31161

WorkList Name : %1-p2791 **WorkList ID :** 180956 **Department :** Wet-Chemistry **Date :** 06-10-2024 14:46:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P2791-01	MYD430	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2791-02	MYD430D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2791-03	MYD430S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2791-04	MYD4H1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-05	MYD4H2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-06	MYD4H4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-07	MYD4H5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-08	MYD4H6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-09	MYD4H7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-10	MYD4H9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-11	MYD4J0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-12	MYD4J1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-13	MYD4J2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-14	MYD4J3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-15	MYD4J4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-16	MYD4J5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-17	MYD4J6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-18	MYD4J7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-19	MYD4J9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-20	MYD4K0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2791-21	MYD4K1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO

Date/Time 06.10.24 14:50

Raw Sample Received by: JR Cook

Raw Sample Relinquished by: SH

Date/Time 06.10.24 16:00

Raw Sample Received by: SH

Raw Sample Relinquished by: JR Cook

WORKLIST(Hardcopy Internal Chain)

VR 13116)

WorkList Name : %1-p2791 **WorkList ID :** 180956 **Department :** Wet-Chemistry **Date :** 06-10-2024 14:46:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P2791-22	MYD4K2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO

Date/Time 06.10.24 14:50
Raw Sample Received by: JQ WC
Raw Sample Relinquished by: SM

Date/Time 06.10.24 16:00
Raw Sample Received by: SM
Raw Sample Relinquished by: JQ WC