SDG COVER PAGE

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

Lab Code: ACE Case No.: 51948 MA No.: SDG No.: MC0B00

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MC0B00	Q1089-01		X	X	
MC0B01	Q1089-02		X	X	
MC0B01D	Q1089-03		X	X	
MC0B01S	Q1089-04		X	X	
MC0B06	Q1089-05		X	X	
MC0B07	Q1089-06		X	X	
MC0AL9	Q1089-07		X	X	
MC0AM2	Q1089-08		X	X	
MC0AZ9	Q1089-09		X	X	
MC0B02	Q1089-10		X	X	
MC0B04	Q1089-11		X	X	
MC0B09	Q1089-12		X	X	
MC0B10	Q1089-13		X	X	
MC0B11	Q1089-14		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: _____

68HERH20D0011

SDG # MC0B00

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-011425-111157-0122

DateShipped: 1/14/2025
CarrierName: FedEx
AirbillNo: 771420580900

Case #: 51948
Cooler #: 6

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WS-0184	C0B01	Ground Water/ James Regensburger	Grab	ARO(21), SVOA(21)	3876 (None), 3877 (None), 3883 (None), 3884 (None), 3966 (None), 3967 (None) (6)	NSGP-2015-DPW-6D-01132025	01/13/2025 10:35	
WS-0183	MC0B00	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	3864 (HNO3 pH<2) (1)	NSGP-2015-DPW-6-01132025	01/13/2025 11:40	—
WS-0184	MC0B01	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	3880 (HNO3 pH<2), 3968 (HNO3 pH<2), 3969 (HNO3 pH<2) (3)	NSGP-2015-DPW-6D-01132025	01/13/2025 10:35	pH 1.3
WS-0189	MC0B06	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	3955 (HNO3 pH<2) (1)	NSGP-2015-MW-1-01132025	01/13/2025 14:20	
WS-0190	MC0B07	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	3980 (HNO3 pH<2) (1)	NSGP-FB-01-01132025	01/13/2025 15:00	

Sample(s) to be used for Lab QC: WS-0184 Tag 3966, WS-0184 Tag 3967, WS-0184 Tag 3968, WS-0184 Tag 3969

000706, 000705

Analysis Key: ARO=CLP Aroclors, SVOA=CLP Semivolatiles, ICP-MS+Hg=CLP ICP-MS Metals + Mercury

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
5 samples	[signature] EA	1/14/24 1700	[signature]	1003 1-15-25	IR Gun #1 Temp 2.8°C Temp blank present Custody Seal intact

68HERH20D0011

SDG # MC0B00

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-011625-143425-0134

DateShipped: 1/16/2025
CarrierName: FedEx
AirbillNo: 771478577222

Case #: 51948
Cooler #: 5

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WS-0189	C0B06	Ground Water/ James Regensburger	Grab	TVOA(21)	3960 (HCl), 3961 (HCl), 3962 (HCl) (3)	NSGP-2015-MW-1-01132025	01/13/2025 14:20	
WS-0190	C0B07	Ground Water/ James Regensburger	Grab	TVOA(21)	3985 (HCl), 3986 (HCl), 3987 (HCl) (3)	NSGP-FB-01-01132025	01/13/2025 15:00	
WS-0191	C0B08	Ground Water/ James Regensburger	Grab	TVOA(21)	4000 (HCl), 4001 (HCl), 4002 (HCl) (3)	NSGP-TB-01-01132025	01/13/2025 15:00	
WS-0192	C0B09	Ground Water/ James Regensburger	Grab	TVOA(21)	4015 (HCl), 4016 (HCl), 4017 (HCl) (3)	NSGP-DUP-01-01142025	01/14/2025 11:35	
WS-0193	C0B10	Ground Water/ James Regensburger	Grab	TVOA(21)	4030 (HCl), 4031 (HCl), 4032 (HCl) (3)	NSGP-FB-02-01142025	01/14/2025 15:00	
WS-0194	C0B11	Ground Water/ James Regensburger	Grab	TVOA(21)	4045 (HCl), 4046 (HCl), 4047 (HCl) (3)	NSGP-FB-03-01152025	01/15/2025 15:00	
WS-0113	MC0AL9	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	2374 (HNO3 pH<2) (1)	NSGP-2015-MW-02-01152025	01/15/2025 10:30	✓ pH 1.0

Special Instructions: 000831 - 000832

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TVOA=CLP Trace Volatiles, ICP-MS+Hg=CLP ICP-MS Metals + Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
7 Samples	[signature] EA	1/16/2025 1730	[signature]	9:30 1-17-25	IR Gun #1 2.4 ✓
					Custody Seal Intact
					Temp Blank present

68HERH20D0011

SDG # MC0B00

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-011625-143425-0134

DateShipped: 1/16/2025
CarrierName: FedEx
AirbillNo: 771478577222

Case #: 51948
Cooler #: 5

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WS-0116	MC0AM2	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	2422 (HNO3 pH<2) (1)	NSGP-2015-DPW-5-01142025	01/14/2025 09:55	✓ pH 1.0
WS-0182	MC0AZ9	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	3849 (HNO3 pH<2) (1)	NSGP-2015-MW-2-01142025	01/14/2025 11:30	✓
WS-0185	MC0B02	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	3895 (HNO3 pH<2) (1)	NSGP-2015-DPW-1-01142025	01/14/2025 14:00	✓
WS-0187	MC0B04	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	3925 (HNO3 pH<2) (1)	NSGP-2015-DPW-3-012025	01/15/2025 12:25	✓
WS-0192	MC0B09	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	4010 (HNO3 pH<2) (1)	NSGP-DUP-01-01142025	01/14/2025 11:35	✓
WS-0193	MC0B10	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	4025 (HNO3 pH<2) (1)	NSGP-FB-02-01142025	01/14/2025 15:00	✓
WS-0194	MC0B11	Ground Water/ James Regensburger	Grab	ICP-MS+Hg(21)	4040 (HNO3 pH<2) (1)	NSGP-FB-03-01152025	01/15/2025 15:00	✓

Special Instructions: 000831 - 000832

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TVOA=CLP Trace Volatiles, ICP-MS+Hg=CLP ICP-MS Metals + Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
7 Samples	[signature] FA	1/16/2025 17:00	[signature]	9:30 1-17-25	IR Gun # 1 2.4° C Custody Seal Intact Temp Blank present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 2
Received By (Print Name)		Log-in Date 1/15/2025
Received By (Signature)		
Case Number 51948	SDG No. MC0B00	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	000706-05
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	771420580900 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.8 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	01/15/2025
12.Time Received	10:03

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MC0B00	1.3	3864	Q1089-01	Intact
2	MC0B01	1.3	3880,~~68~~,3969 , 3968	Q1089-02	Intact
3	MC0B01D	1.3	3880,~~68~~,3969 , 3968	Q1089-03	Intact
4	MC0B01S	1.3	3880,68,3969 , 3968	Q1089-04	Intact
5	MC0B06	1.3	3955	Q1089-05	Intact
6	MC0B07	1.3	3980	Q1089-06	Intact
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 1/15/25	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) Cassandra Pena		Log-in Date 1/17/2025
Received By (Signature)		
Case Number 51948	SDG No. MC0B00	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	000831-000832
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	771478577222 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.4 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	01/17/2025
12.Time Received	09:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MC0AL9	1.0	2374	Q1089-07	Intact
2	MC0AM2	1.0	2422	Q1089-08	Intact
3	MC0AZ9	1.0	3849	Q1089-09	Intact
4	MC0B02	1.0	3895	Q1089-10	Intact
5	MC0B04	1.0	3925	Q1089-11	Intact
6	MC0B09	1.0	4010	Q1089-12	Intact
7	MC0B10	1.0	4025	Q1089-13	Intact
8	MC0B11	1.0	4040	Q1089-14	Intact
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 1/17/25	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.	**51948**	SDG NO.	**MC0B00**
MA NO.		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	13	✓	
6 . Communication Logs	NA	NA	✓	
7 . Percent Solids Log	NA	NA	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample 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	14	25	✓	
18 . Instrument raw data by instrument in analysis order	26	443	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	444	579	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	580	581	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	582	588	✓	
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	589	600	✓	
27. Instrument raw data by instrument in analysis order	601	602	✓	
Other Data				
28. Standard and Reagent Preparation Logs	603	629	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	630	631	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	632	633	✓	
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)	634	635	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	636	637	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	638	639	✓	
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 # MC0B00
CASE # 51948
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1089

A. Number of Samples and Date of Receipt

12 Water samples were delivered to the laboratory intact on 01/15/2025, 01/17/2025.

B. Parameters

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

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.8^{o}C, 2.4^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

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

F. Analytical Techniques:

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

G. Calculation:

Calculation for ICP-MS Water Sample:

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Mountainside, NJ 07092

Concentration or Result (µg/L) = C x $\frac{Vf}{Vi}$ x DF

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Sample MC0B00 For Arsenic:

If C = 0.26 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1
Concentration or Result (µg/L) = 0.26 x $\frac{50}{50}$ x 1

= 0.26 µg/L

= 0.26 µg/L (Reported Result with Signification)

Calculation for Hg Water Sample:

Concentration or Result (µg/L) = C x DF
Where,

C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

Example Calculation For Sample MC0B00:

If C = 0.0669 ppb
DF = 1
Concentration or Result (µg/L) = 0.0669 x 1

= 0.0669 µg/L

= 0.067 µg/L (Reported Result with Signification)

H. QA/ QC

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

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Mountainside, NJ 07092

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
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Calcium	45Sc
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Iron	45Sc
Lead	209Bi
Magnesium	45Sc
Manganese	45Sc
Nickel	45Sc
Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc

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Mountainside, NJ 07092

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