

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51810 MA No.: _____ SDG No.: MC0VD6
 SOW No. : SFAM01.1

| EPA Sample No. | Lab Sample Id | Analysis Method | | | |
|----------------|-----------------|-----------------|--------|----------|---------|
| | | ICP-AES | ICP-MS | Mercury | Cyanide |
| <u>MC0VD6</u> | <u>P4657-01</u> | <u>X</u> | | <u>X</u> | |
| <u>MC0VH5</u> | <u>P4657-02</u> | <u>X</u> | | <u>X</u> | |
| <u>MC0VM8</u> | <u>P4657-03</u> | <u>X</u> | | <u>X</u> | |

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)

CHAIN OF CUSTODY RECORD

No: 3-102924-161359-0005

Date Shipped: 10/30/2024

Carrier Name: FedEx

Airbill No: 7796532145584

Case # 5181b
 Date #:
 Cooler #:

Lab: Alliance Technical Group LLC
 Lab Contact: Mohammad Ahmed
 Lab Phone: 908-789-8900

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|-------------------|----------------|----------------|--------------|----------------------------|---------------------------|----------|----------------------|------------------|
| EA0003-GB | MCOVD3 | Soil/ START | Grab | ICP-AES(21) | 1004 (<6C) (1) | 0003 | 10/29/2024 11:30 | - |
| EA-RB01-20241029 | MCOVD6 | Blank Water/ | | ICP-AES(21) | 1018 (HNO3 PH<2, <6C) (1) | QA | 10/29/2024 17:24 | PH 11.05 9 ② |
| EA0005-GB | MCOVE1 | Soil/ START | Grab | ICP-AES(21) | 1036 (<6C) (1) | 0005 | 10/29/2024 12:58 | |
| EA0006-GB | MCOVE2 | Soil/ START | Grab | ICP-AES(21) | 1038 (<6C) (1) | 0006 | 10/30/2024 09:10 | |
| EA0001-GB | MCOVE7 | Soil/ START | Grab | ICP-AES(21) | 1056 (<6C) (1) | 0001 | 10/29/2024 09:45 | |
| EA0002-GB | MCOVE8 | Soil/ START | Grab | ICP-AES(21) | 1058 (<6C) (1) | 0002 | 10/29/2024 10:45 | |
| EA0004-GB | MCOVE9 | Soil/ START | Grab | ICP-AES(21) | 1060 (<6C) (1) | 0004 | 10/29/2024 11:45 | |
| EA0008-GB | MCOVF0 | Soil/ START | Grab | ICP-AES(21) | 1062 (<6C) (1) | 0004 | 10/29/2024 14:00 | |
| EA0009-GB | MCOVF1 | Soil/ START | Grab | ICP-AES(21) | 1064 (<6C) (1) | 0009 | 10/29/2024 15:58 | |
| EA0010-GB | MCOVF5 | Soil/ START | Grab | ICP-AES(21) | 1078 (<6C) (1) | 0010 | 10/29/2024 15:10 | |
| EA0012-GB | MCOVF6 | Soil/ START | Grab | ICP-AES(21) | 1080 (<6C) (1) | 0012 | 10/29/2024 16:25 | |
| EA0014-GB | MCOVG6 | Soil/ START | Grab | ICP-AES(21) | 1118 (<6C) (1) | 0014 | 10/30/2024 09:50 | |
| EA0016-GB | MCOVG7 | Soil/ START | Grab | ICP-AES(21) | 1120 (<6C) (1) | 0016 | 10/30/2024 11:10 | |
| EA0018-GB | MCOVG8 | Soil/ START | Grab | ICP-AES(21) | 1122 (<6C) (1) | 0018 | 10/30/2024 12:07 | |
| EA0020-GB | MCOVG9 | Soil/ START | Grab | ICP-AES(21) | 1124 (<6C) (1) | 0020 | 10/30/2024 13:50 | |
| EA0011-GB | MCOVH0 | Soil/ START | Grab | ICP-AES(21) | 1126 (<6C) (1) | 0011 | 10/30/2024 09:12 | |
| EA-RB02-20241030 | MCOVH5 | Blank Water/ | | ICP-AES(21) | 1139 (HNO3 PH<2, <6C) (1) | QA | 10/30/2024 15:50 | PH 11.05 9 ② |

Special Instructions: Alliance Metals 1

Analysis Key: ICP-AES=CLP ICP-AES Metals + Hg

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 |
|--------------|--|----------------------|--|---------------------|-------------------------------|
| | <i>Conor Marko TB</i> | <i>10/30/24 1805</i> | <i>[Signature]</i> | <i>945 10-31-24</i> | <i>Box # 1 26</i> |
| | | | | | <i>Custody Seal Torn</i> |
| | | | | | <i>Long Black present</i> |

FORM DC-1
SAMPLE LOG-IN SHEET

| | |
|---|---|
| Lab Name : Alliance Technical Group, LLC | Page <u>1</u> of <u>1</u> |
| Received By (Print Name) <i>Cesparava Reina</i> | Log-in Date 10/31/2024 |
| Received By (Signature) <i>Cesparava Reina</i> | |
| Case Number 51810 | SDG No. MC0VD6 MA No. N/A |

| | |
|--|------------------------------------|
| Remarks: | |
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | <u>n/a</u> |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | <u>779632145584</u> <u>1</u> |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | <u>2.6</u> 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 | <u>10/31/2024</u> |
| 12. Time Received | <u>09:45</u> |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding | | Remarks: Condition of Sample Shipment, etc. |
|----|--------------|-----------------------------|---------------|----------------|--|
| | | | Sample Tag # | Assigned Lab # | |
| 1 | MC0VD6 | 1.6 | 1018 | P4657-01 | Intact |
| 2 | MC0VH5 | 1.6 | 1139 | P4657-02 | Intact |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 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 <i>[Signature]</i> | Logbook No. N/A |
| Date <u>10/31/24</u> | Logbook Page No. N/A |

FORM DC-1
SAMPLE LOG-IN SHEET

| | |
|---|---|
| Lab Name : Alliance Technical Group, LLC | Page <u>2</u> of <u>2</u> |
| Received By (Print Name) <u>GORSA WEGON</u> | Log-in Date 11/2/2024 |
| Received By (Signature) | |
| Case Number 51810 | SDG No. MC0VD6 MA No. N/A |

| | |
|--|------------------------------------|
| Remarks: | |
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | <u>n/a</u> |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | <u>779673325018</u> <u>2</u> |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | <u>2.4</u> 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 | <u>11/02/2024</u> |
| 12. Time Received | <u>09:40</u> |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding | | Remarks: Condition of Sample Shipment, etc. |
|----|--------------|-----------------------------------|---------------|----------------|---|
| | | | Sample Tag # | Assigned Lab # | |
| 1 | MC0VM8 | 1.6 | 1279 | P4657-03 | Intact |
| 2 | N/A | N/A | N/A | N/A | N/A |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 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 <u>11/2/24</u> | 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. | 51810 | SDG NO. | MC0VD6 |
| 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: | | CHECK | |
|---|-----------|-----|-------|--------|
| | FROM | TO | LAB | REGION |
| 1. SDG Cover Page | 1 | 1 | ✓ | |
| 2. Traffic Report/Chain of Custody Record(s) | 2 | 3 | ✓ | |
| 3. Sample Log-In Sheet (DC-1) | 4 | 5 | ✓ | |
| 4. CSF Inventory Sheet (DC-2) | 6 | 8 | ✓ | |
| 5. SDG Narrative | 9 | 11 | ✓ | |
| 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 | 12 | 14 | ✓ | |
| 9. Instrument raw data by instrument in analysis order | 15 | 361 | ✓ | |
| Other Data | | | | |
| 10. Standard and Reagent Preparation Logs | 362 | 488 | ✓ | |
| 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 489 | 490 | ✓ | |
| 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 491 | 500 | ✓ | |
| 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 | NA | NA | ✓ | |
| 18. Instrument raw data by instrument in analysis order | NA | NA | ✓ | |
| Other Data | | | | |
| 19. Standard and Reagent Preparation Logs | NA | NA | ✓ | |
| 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | NA | NA | ✓ | |
| 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | NA | NA | ✓ | |
| 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions | NA | NA | ✓ | |

| | PAGE NOs: | | CHECK | |
|--|-----------|-----|-------|--------|
| | FROM | TO | LAB | REGION |
| 23 . Extraction Logs for TCLP and SPLP | NA | NA | ✓ | |
| 24 . Raw GPC Data | NA | NA | ✓ | |
| 25 . Raw Florisil Data | NA | NA | ✓ | |
| Analysis Forms and Data (Mercury) | | | | |
| 26 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | 501 | 503 | ✓ | |
| 27 . Instrument raw data by instrument in analysis order | 504 | 505 | ✓ | |
| Other Data | | | | |
| 28 . Standard and Reagent Preparation Logs | 506 | 536 | ✓ | |
| 29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 537 | 538 | ✓ | |
| 30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 539 | 539 | ✓ | |
| 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: | | CHECK | |
|-----------|----|-------|--------|
| FROM | TO | LAB | REGION |

Additional

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 2)

Sample Tags

Sample Log-In Sheet (Lab)

| | | | |
|-----|-----|---|--|
| 540 | 541 | ✓ | |
| NA | NA | ✓ | |
| 542 | 542 | ✓ | |

45. Misc. Shipping/Receiving Records (list all individual records)

| | | | |
|----|----|---|--|
| NA | NA | ✓ | |
| | | | |
| | | | |

46. Internal Lab Sample Transfer Records and Tracking Sheets
 (describe or list)

| | | | |
|-----|-----|---|--|
| 543 | 544 | ✓ | |
| | | | |

47. Other Records and related Communication Logs
 (describe or list)

| | | | |
|----|----|---|--|
| NA | NA | ✓ | |
| | | | |
| | | | |

48. Comments:

Completed by:
 (CLP Lab)

 (Signature)

Nimisha Pandya, Document Control Officer

 (Print Name & Title)

 (Date)

Audited by:
 (EPA)

 (Signature)

 (Print Name & Title)

 (Date)



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MC0VD6

CASE # 51810

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # P4657

A. Number of Samples and Date of Receipt

03 Water samples were delivered to the laboratory intact on 10/31/2024, 11/02/2024.

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 & Mercury.

C. Cooler Temp

Indicator Bottle: **Presence**/Absence

Cooler: 2.6°C, 2.4°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.

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.



**284 Sheffield Street
Mountainside, NJ 07092**

G. Calculation:

Calculation for ICP-AES Water Sample:

$$\text{Concentration or Result } (\mu\text{g/L}) = C \times \frac{V_f}{V_i} \times \text{DF} \times 1000$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)

V_f = Final digestion volume (mL)

V_i = Initial aliquot amount (mL) (Sample amount taken in prep)

DF = Dilution Factor

Example Calculation For Sample MC0VD6 For Nickel:

If C = 0.0021649 ppm

V_f = 50 ml

V_i = 50 ml

DF = 1

$$\text{Concentration or Result } (\mu\text{g/L}) = 0.0021649 \times \frac{50}{50} \times 1 \times 1000$$

$$= 2.1649 \mu\text{g/L}$$

$$= 2.2 \mu\text{g/L (Reported Result with Signification)}$$

Calculation for Hg Water Sample:

$$\text{Concentration or Result } (\mu\text{g/L}) = C \times \text{DF}$$

Where,

C = Instrument response in $\mu\text{g/L}$ from the calibration curve.

DF = Dilution Factor

Example Calculation For Mercury:

If C = 0.1811 ppb

DF = 1

$$\text{Concentration or Result } (\mu\text{g/L}) = 0.1811 \times 1$$

$$= 0.1811 \mu\text{g/L}$$

$$= 0.18 \mu\text{g/L (Reported Result with Signification)}$$



**284 Sheffield Street
Mountainside, NJ 07092**

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.

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