SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHHL4

SOW No. : SFAM01.1

| EPA Sample No. | Lab Sample Id | Analysis Method ICP-AES | ICP-MS | Mercury | Cyanide |
|---|---|---|---|---|---|
| MBHHL4 | P4915-01 | X | | | |
| MBHHL5 | P4915-02 | X | | | |
| MBHHL6 | P4915-03 | X | | | |
| MBHHL7 | P4915-04 | X | | | |
| MBHHM5 | P4915-05 | X | | | |
| MBHHM6 | P4915-06 | X | | | |
| MBHHM7 | P4915-07 | X | | | |
| MBHHM8 | P4915-08 | X | | | |
| MBHHM8D | P4915-09 | X | | | |
| MBHHM8S | P4915-10 | X | | | |
| MBHHM9 | P4915-11 | X | | | |
| MBHHN0 | P4915-12 | X | | | |
| MBHHN1 | P4915-13 | X | | | |
| MBHHN2 | P4915-14 | X | | | |
| MBHHN3 | P4915-15 | X | | | |
| MBHHN4 | P4915-16 | X | | | |
| MBHHN5 | P4915-17 | X | | | |
| MBHHN6 | P4915-18 | X | | | |
| MBHHN7 | P4915-19 | X | | | |
| MBHHN8 | P4915-20 | X | | | |
| MBHHN9 | P4915-21 | X | | | |
| MBHHP0 | P4915-22 | 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:

68HERH20D0011

SDG # MBHHL4

**USEPA CLP COC (LAB COPY)**

DateShipped: 11/18/2024

CarrierName: FedEx

AirbillNo: 7700 4046 2156

**CHAIN OF CUSTODY RECORD**

Case #: 51879

Cooler #: 3

**No: 2-111824-151033-0007**

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 |
|---|---|---|---|---|---|---|---|---|
| P121-SB-15-Z12-18 | MBHHL4 | Soil/ | | ICP-AES(35) | 1241 (Wet ice < 6 C) (1) | P121-SB-15 | 11/15/2024 14:10 | |
| P121-SB-15-Z18-24 | MBHHL5 | Soil/ | | ICP-AES(35) | 1242 (Wet ice < 6 C) (1) | P121-SB-15 | 11/15/2024 14:10 | |
| P121-SB-15-Z24-30 | MBHHL6 | Soil/ | | ICP-AES(35) | 1243 (Wet ice < 6 C) (1) | P121-SB-15 | 11/15/2024 14:10 | |
| P121-SB-15-Z30-36 | MBHHL7 | Soil/ | | ICP-AES(35) | 1244 (Wet ice < 6 C) (1) | P121-SB-15 | 11/15/2024 14:10 | |
| P107-SB-11-Z30-36-FD | MBHHM5 | Soil/ | | ICP-AES(35) | 5433 (Wet ice < 6 C) (1) | P107-SB-11 | 11/15/2024 11:36 | |
| RB04-11182024 | MBHHM6 | Water/ | | ICP-AES(35) | 5434 (HNO3 pH < 2) (1) | RB04-11182024 | 11/18/2024 16:00 | water |

N/A 11/18/24

| Special Instructions: Additional sample volume provided for MBHHK4 is for MS/MSD. Sample MBHHM6 is a rinse blank. | **Shipment for Case Complete? N** |
|---|---|
| | **Samples Transferred From Chain of Custody #** |
| Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals | |

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| 1 Cooler | | 11/18/24 16:50 | | 11-19-24 0957 | 2-0°C IR GUN #1 |
| | | | N/A 11/18/24 | | custody seals intact Temp Blk - present |
| | | | | | |
| | | | | | |

68HERH20D0011

SDG # MBHHL4

**USEPA CLP COC (LAB COPY)**
DateShipped: 11/19/2024
CarrierName: FedEx
AirbillNo: 7700 7470 4458

**CHAIN OF CUSTODY RECORD**

Case #: 51879
Cooler #: 1

**No: 2-111924-094038-0008**
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 |
|---|---|---|---|---|---|---|---|---|
| P120-SB-12-Z00-02 | MBHHM7 | Soil/ | | ICP-AES(35) | 1210 (Wet ice < 6 C) (1) | P120-SB-12 | 11/15/2024 10:40 | ✓ |
| P120-SB-12-Z02-06 | MBHHM8 | Soil/ | | ICP-AES(35) | 1211 (Wet ice < 6 C) (2) | P120-SB-12 | 11/15/2024 10:40 | ✓ |
| P120-SB-12-Z06-12 | MBHHM9 | Soil/ | | ICP-AES(35) | 1212 (Wet ice < 6 C) (1) | P120-SB-12 | 11/15/2024 10:40 | ✓ |
| P120-SB-12-Z12-18 | MBHHN0 | Soil/ | | ICP-AES(35) | 1213 (Wet ice < 6 C) (1) | P120-SB-12 | 11/15/2024 10:40 | ✓ |
| P120-SB-12-Z18-24 | MBHHN1 | Soil/ | | ICP-AES(35) | 1214 (Wet ice < 6 C) (1) | P120-SB-12 | 11/15/2024 10:40 | ✓ |
| P120-SB-12-Z24-30 | MBHHN2 | Soil/ | | ICP-AES(35) | 1215 (Wet ice < 6 C) (1) | P120-SB-12 | 11/15/2024 10:40 | ✓ |
| P120-SB-12-Z30-36 | MBHHN3 | Soil/ | | ICP-AES(35) | 1216 (Wet ice < 6 C) (1) | P120-SB-12 | 11/15/2024 10:40 | ✓ |
| P121-SB-10-Z00-02 | MBHHN4 | Soil/ | | ICP-AES(35) | 1217 (Wet ice < 6 C) (1) | P121-SB-10 | 11/15/2024 12:30 | ✓ |
| P121-SB-10-Z02-06 | MBHHN5 | Soil/ | | ICP-AES(35) | 1218 (Wet ice < 6 C) (1) | P121-SB-10 | 11/15/2024 12:30 | ✓ |
| P121-SB-10-Z06-12 | MBHHN6 | Soil/ | | ICP-AES(35) | 1219 (Wet ice < 6 C) (1) | P121-SB-10 | 11/15/2024 12:30 | ✓ |

Sample(s) to be used for Lab QC: P120-SB-12-Z02-06 Tag 1211 - Special Instructions: Additional sample volume provided for MBHHM8 and MBHHQ2 is for MS/MSD.

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| 1 Cooler | WSP | 11/19/24 14:45 | | 11-20-24 1010 | 2.9°C IR GUN #1 |
| | | N/A | | | custody seals INTACT |
| | | 11/19/24 | | | Temp BLK - PRESENT |
| | | | | | |

68HERH20D0011

SDG # MBHHL4

**USEPA CLP COC (LAB COPY)**
DateShipped: 11/19/2024
CarrierName: FedEx
AirbillNo: 7700 7470 4458

**CHAIN OF CUSTODY RECORD**

Case #: 51879
Cooler #: 1

**No: 2-111924-094038-0008**
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 |
|---|---|---|---|---|---|---|---|---|
| P121-SB-10-Z12-18 | MBHHN7 | Soil/ | | ICP-AES(35) | 1220 (Wet ice < 6 C) (1) | P121-SB-10 | 11/15/2024 12:30 | ✓ |
| P121-SB-10-Z18-24 | MBHHN8 | Soil/ | | ICP-AES(35) | 1221 (Wet ice < 6 C) (1) | P121-SB-10 | 11/15/2024 12:30 | ✓ |
| P121-SB-10-Z24-30 | MBHHN9 | Soil/ | | ICP-AES(35) | 1222 (Wet ice < 6 C) (1) | P121-SB-10 | 11/15/2024 12:30 | ✓ |
| P121-SB-10-Z30-36 | MBHHP0 | Soil/ | | ICP-AES(35) | 1223 (Wet ice < 6 C) (1) | P121-SB-10 | 11/15/2024 12:30 | ✓ |
| P120-SB-11-Z00-02 | MBHHQ1 | Soil/ | | ICP-AES(35) | 1203 (Wet ice < 6 C) (1) | P120-SB-11 | 11/15/2024 10:15 | |
| P120-SB-11-Z02-06 | MBHHQ2 | Soil/ | | ICP-AES(35) | 1204 (Wet ice < 6 C) (2) | P120-SB-11 | 11/15/2024 10:15 | ✓ |
| P120-SB-11-Z06-12 | MBHHQ3 | Soil/ | | ICP-AES(35) | 1205 (Wet ice < 6 C) (1) | P120-SB-11 | 11/15/2024 10:15 | |
| P120-SB-11-Z12-18 | MBHHQ4 | Soil/ | | ICP-AES(35) | 1206 (Wet ice < 6 C) (1) | P120-SB-11 | 11/15/2024 10:15 | |
| P120-SB-11-Z18-24 | MBHHQ5 | Soil/ | | ICP-AES(35) | 1207 (Wet ice < 6 C) (1) | P120-SB-11 | 11/15/2024 10:15 | |
| P120-SB-11-Z24-30 | MBHHQ6 | Soil/ | | ICP-AES(35) | 1208 (Wet ice < 6 C) (1) | P120-SB-11 | 11/15/2024 10:15 | |

Sample(s) to be used for Lab QC: P120-SB-11-Z02-06 Tag 1204 - Special Instructions: Additional sample volume provided for MBHHM8 and MBHHQ2 is for MS/MSD.

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| 1 Cooler | | 11/19/2024 14:45 | | 11-20-24 1010 | 2.9°C IR gun #1 |
| | | N/A | | | custody seals INTACT |
| | | | 11/19/24 | | Temp BM - present |
| | | | | | |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 1 of 2 |
| Received By (Print Name) George Vescio | | Log-in Date **11/19/2024** |
| Received By (Signature) | | |
| Case Number 51879 | SDG No. MBHHL4 | MA No. N/A |

| 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. | 770040462156<br>1 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.0 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 11/19/2024 |
| 12.Time Received | 09:57 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding | | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| | | | Sample Tag # | Assigned Lab # | |
| 1 | MBHHL4 | N/A | 1241 | P4915-01 | Intact |
| 2 | MBHHL5 | N/A | 1242 | P4915-02 | Intact |
| 3 | MBHHL6 | N/A | 1243 | P4915-03 | Intact |
| 4 | MBHHL7 | N/A | 1244 | P4915-04 | Intact |
| 5 | MBHHM5 | N/A | 5433 | P4915-05 | Intact |
| 6 | MBHHM6 | 1.3 | 5434 | P4915-06 | 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 | 11/19/24 | 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) Cassandra M | | Log-in Date **11/20/2024** |
| Received By (Signature) | | |
| Case Number 51879 | SDG No. MBHHL4 | MA No. N/A |

| 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. | 770074704458<br>2 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.9 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 11/20/2024 |
| 12.Time Received | 10:10 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | MBHHM7 | N/A | 1210 | P4915-07 | Intact |
| 2 | MBHHM8 | N/A | 1211 | P4915-08 | Intact |
| 3 | MBHHM8D | N/A | 1211 | P4915-09 | Intact |
| 4 | MBHHM8S | N/A | 1211 | P4915-10 | Intact |
| 5 | MBHHM9 | N/A | 1212 | P4915-11 | Intact |
| 6 | MBHHN0 | N/A | 1213 | P4915-12 | Intact |
| 7 | MBHHN1 | N/A | 1214 | P4915-13 | Intact |
| 8 | MBHHN2 | N/A | 1215 | P4915-14 | Intact |
| 9 | MBHHN3 | N/A | 1216 | P4915-15 | Intact |
| 10 | MBHHN4 | N/A | 1217 | P4915-16 | Intact |
| 11 | MBHHN5 | N/A | 1218 | P4915-17 | Intact |
| 12 | MBHHN6 | N/A | 1219 | P4915-18 | Intact |
| 13 | MBHHN7 | N/A | 1220 | P4915-19 | Intact |
| 14 | MBHHN8 | N/A | 1221 | P4915-20 | Intact |
| 15 | MBHHN9 | N/A | 1222 | P4915-21 | Intact |
| 16 | MBHHP0 | N/A | 1223 | P4915-22 | Intact |
| 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 | 11/20/24 | 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. | **51879** | SDG NO. | **MBHHL4** |
| 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 | 12 | ✓ | |
| 6. Communication Logs | NA | NA | ✓ | |
| 7. Percent Solids Log | 13 | 14 | ✓ | |
| **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 | 15 | 34 | ✓ | |
| 9. Instrument raw data by instrument in analysis order | 35 | 696 | ✓ | |
| **Other Data** | | | | |
| 10. Standard and Reagent Preparation Logs | 697 | 880 | ✓ | |
| 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 881 | 884 | ✓ | |
| 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 885 | 903 | ✓ | |
| 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: 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 ) | 904 | 905 | ✓ | |
| Sample Tags | NA | NA | ✓ | |
| Sample Log-In Sheet (Lab) | 906 | 907 | ✓ | |
| 45. Misc. Shipping/Receiving Records (list all individual records) | | | | |
| | NA | NA | ✓ | |
| | | | | |
| | | | | |
| 46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list) | | | | |
| | 908 | 909 | ✓ | |
| | | | | |
| 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 # MBHHL4**
**CASE # 51879**
**CONTRACT # 68HERH20D0011**
**SOW# SFAM01.1**
**LAB NAME: Alliance Technical Group, LLC**
**LAB CODE: ACE**
**LAB ORDER ID # P4915**

**A. Number of Samples and Date of Receipt**

19 Soil & 01 Water samples were delivered to the laboratory intact on 11/19/2024 & 11/20/2024.

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.

**C. Cooler Temp**

Indicator Bottle**: Presence/**Absence

Cooler: 2.0$^{o}$C, 2.9$^{o}$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.

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 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 MBHHL4 For Antimony:**

If C = 0.0101757 ppm
Vf = 100 ml
W = 1.11 g
S = 0.819(81.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0101757 \times \frac{100}{1.11 \times 0.819} \times 1$$

$$= 1.1193 \text{ mg/kg}$$

$$= 1.1 \text{ mg/kg (Reported Result with Signification}$$

**Calculation for ICP-AES Water Sample**:

$$\text{Concentration or Result (µg/L)} = C \times \frac{Vf}{Vi} \times DF \times 1000$$

Where,

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

**284 Sheffield Street**
**Mountainside, NJ 07092**

**Example Calculation For Sample MBHHM6 For Nickel:**

If C = 0.0282150 ppm
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result } (\mu g/L) = 0.0282150 \times \frac{50}{50} \times 1 \times 1000$$

$$= 28.215\ \mu g/L$$

$$= 28\ \mu g/L \text{ (Reported Result with Signification)}$$

**H. QA/ QC**

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Selenium, Silver. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Calcium, Chromium, Copper, Iron, Manganese, Zinc.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.

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

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 11/21/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 12:50
**In Date:** 11/20/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 07:55
**Out Date:** 11/21/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133531

| 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 |
|---|---|---|---|---|---|---|---|---|
| P4915-01 | MBHHL4 | 1 | 1.18 | 8.64 | 9.82 | 8.26 | 81.9 | |
| P4915-02 | MBHHL5 | 2 | 1.19 | 8.41 | 9.6 | 8.11 | 82.3 | |
| P4915-03 | MBHHL6 | 3 | 1.16 | 8.72 | 9.88 | 8.53 | 84.5 | |
| P4915-04 | MBHHL7 | 4 | 1.15 | 8.40 | 9.55 | 8.19 | 83.8 | |
| P4915-05 | MBHHM5 | 5 | 1.15 | 8.50 | 9.65 | 7.9 | 79.4 | |
| P4915-07 | MBHHM7 | 6 | 1.19 | 8.53 | 9.72 | 7.81 | 77.6 | |
| P4915-08 | MBHHM8 | 7 | 1.15 | 8.59 | 9.74 | 8.46 | 85.1 | |
| P4915-09 | MBHHM8D | 8 | 1.15 | 8.59 | 9.74 | 8.46 | 85.1 | |
| P4915-10 | MBHHM8S | 9 | 1.15 | 8.59 | 9.74 | 8.46 | 85.1 | |
| P4915-11 | MBHHM9 | 10 | 1.15 | 8.80 | 9.95 | 8.96 | 88.8 | |
| P4915-12 | MBHHN0 | 11 | 1.16 | 8.50 | 9.66 | 8.73 | 89.1 | |
| P4915-13 | MBHHN1 | 12 | 1.13 | 8.45 | 9.58 | 8.7 | 89.6 | |
| P4915-14 | MBHHN2 | 13 | 1.19 | 8.77 | 9.96 | 9.02 | 89.3 | |
| P4915-15 | MBHHN3 | 14 | 1.19 | 8.58 | 9.77 | 8.68 | 87.3 | |
| P4915-16 | MBHHN4 | 15 | 1.15 | 8.82 | 9.97 | 7.7 | 74.3 | |
| P4915-17 | MBHHN5 | 16 | 1.16 | 8.83 | 9.99 | 8.25 | 80.3 | |
| P4915-18 | MBHHN6 | 17 | 1.18 | 8.47 | 9.65 | 8.32 | 84.3 | |
| P4915-19 | MBHHN7 | 18 | 1.12 | 8.75 | 9.87 | 8.37 | 82.9 | |
| P4915-20 | MBHHN8 | 19 | 1.15 | 8.59 | 9.74 | 8.17 | 81.7 | |
| P4915-21 | MBHHN9 | 20 | 1.15 | 8.44 | 9.59 | 8.19 | 83.4 | |
| P4915-22 | MBHHP0 | 21 | 1.15 | 8.51 | 9.66 | 8.47 | 86.0 | |

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

# WORKLIST(Hardcopy Internal Chain)

JB 133531

**WorkList Name :** %1-p4915 **WorkList ID :** 185612 **Department :** Wet-Chemistry **Date :** 11-20-2024 12:02:17

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4915-01 | MBHHL4 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-02 | MBHHL5 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-03 | MBHHL6 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-04 | MBHHL7 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-05 | MBHHM5 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-07 | MBHHM7 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-08 | MBHHM8 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-09 | MBHHM8D | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-10 | MBHHM8S | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-11 | MBHHM9 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-12 | MBHHN0 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-13 | MBHHN1 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-14 | MBHHN2 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-15 | MBHHN3 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-16 | MBHHN4 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-17 | MBHHN5 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-18 | MBHHN6 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-19 | MBHHN7 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-20 | MBHHN8 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-21 | MBHHN9 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |
| P4915-22 | MBHHP0 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C13 | 11/15/2024 | Chemtech -SO |

**Date/Time** 11-20-24 12:10

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

**Date/Time** 11-20-24 13:00

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]