

## SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51878 MA No.: \_\_\_\_\_ SDG No.: E29Z2  
SOW No. : SFAM01.1

| EPA Sample No. | Lab Sample Id   | ICP-AES           | Analysis Method |          |                   |
|----------------|-----------------|-------------------|-----------------|----------|-------------------|
|                |                 |                   | ICP-MS          | Mercury  | Cyanide           |
| <u>E29Z2</u>   | <u>P4878-01</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E29Z4</u>   | <u>P4878-02</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E29Z6</u>   | <u>P4878-03</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E29Z8</u>   | <u>P4878-04</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E2A14</u>   | <u>P4878-05</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E2A00</u>   | <u>P4878-06</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E2A02</u>   | <u>P4878-07</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E2A02D</u>  | <u>P4878-08</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E2A02S</u>  | <u>P4878-09</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E2A04</u>   | <u>P4878-10</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E2A06</u>   | <u>P4878-11</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E2A08</u>   | <u>P4878-12</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </u> |
| <u>E2A10</u>   | <u>P4878-13</u> | <u>          </u> | <u>X</u>        | <u>X</u> | <u>          </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

Date Shipped: 11/14/2024

No: 5-111424-134025-0070

Carrier Name: FedEx

Lab: Alliance Technical Group LLC  
Lab Contact: Mohammad Ahmed

Airbill No: 779867017584

Case #: 51878

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 |
|----------------------|----------------|-------------------------------|--------------|----------------------------|-----------------------------|-----------|----------------------|------------------|
| SW-01-11142024       | E29Z1          | Surface Water/<br>M. Hartman  | Grab         | TVOA(21), ICP-MS+Hg(21)    | 1603 (HCl), 1604 (HNO3) (4) | SW-01     | 11/14/2024 09:12     |                  |
| SW-01-11142024-F     | E29Z2          | Filtered Water/<br>M. Hartman | Grab         | ICP-MS+Hg (diss)(21)       | 1605 (HNO3) (1)             | SW-01     | 11/14/2024 09:12     | 1-D-11 505       |
| SW-03-11142024       | E29Z3          | Surface Water/<br>M. Hartman  | Grab         | TVOA(21), ICP-MS+Hg(21)    | 1609 (HCl), 1610 (HNO3) (5) | SW-03     | 11/14/2024 10:09     |                  |
| SW-03-11142024-F     | E29Z4          | Filtered Water/<br>M. Hartman | Grab         | ICP-MS+Hg (diss)(21)       | 1611 (HNO3) (1)             | SW-03     | 11/14/2024 10:09     | 2 gm             |
| SW-05-11142024       | E29Z5          | Surface Water/<br>M. Hartman  | Grab         | TVOA(21), ICP-MS+Hg(21)    | 1615 (HCl), 1616 (HNO3) (5) | SW-05     | 11/14/2024 12:00     |                  |
| SW-05-11142024-F     | E29Z6          | Filtered Water/<br>M. Hartman | Grab         | ICP-MS+Hg (diss)(21)       | 1617 (HNO3) (1)             | SW-05     | 11/14/2024 12:00     | 3 gm             |
| SW-07-11142024       | E29Z7          | Surface Water/<br>M. Hartman  | Grab         | TVOA(21), ICP-MS+Hg(21)    | 1621 (HCl), 1622 (HNO3) (4) | SW-07     | 11/14/2024 13:45     |                  |
| SW-07-11142024-F     | E29Z8          | Filtered Water/<br>M. Hartman | Grab         | ICP-MS+Hg (diss)(21)       | 1623 (HNO3) (1)             | SW-07     | 11/14/2024 13:45     | 4 gm             |
| DUP-SW-01-11142024   | E2A13          | Surface Water/<br>M. Hartman  | Grab         | TVOA(21), ICP-MS+Hg(21)    | 1673 (HCl), 1674 (HNO3) (5) | DUP-SW-01 | 11/14/2024 12:00     |                  |
| DUP-SW-01-11142024-F | E2A14          | Filtered Water/<br>M. Hartman | Grab         | ICP-MS+Hg (diss)(21)       | 1675 (HNO3) (1)             | DUP-SW-01 | 11/14/2024 12:00     | 5 gm             |

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM

244511-12

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP Volatiles, TVOA=CLP Trace Volatiles, ICP-MS+Hg=CLP ICP-MS Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time   | Received by (Signature and Organization) | Date/Time     | Sample Condition Upon Receipt |
|--------------|--|-------------|--|---------------|-------------------------------|
|              | Molly Rife EA                                | 11/14/24 EA |  | 11-15-24 0920 | 1-C-1<br>in new #1            |
|              |  |             |  |               | Custody seals intact          |
|              |  |             |  |               | Temp 21°C - preserved         |

## USEPA CLP COC (LAB COPY)

## CHAIN OF CUSTODY RECORD

Date Shipped: 11/15/2024  
Carrier Name: FedEx  
Airbill No: 779982416111

Case #: 51878

No: 5-111524-101932-0081  
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 |
|----------------------|----------------|-------------------------------|--------------|--|---|----------|----------------------|------------------|
| SE-19-0-0.5-11152024 | E29Y9          | Sediment/<br>M. Hartman       | Grab         | SVOA+SIM+1,4-D<br>SIM(21), ARO(21),<br>PEST(21), ICP-<br>MS+AES+Hg(21) | 1591 (None), 1592 (None),<br>1593 (None), 1594 (None) (4) | SE-19    | 11/15/2024 15:10     |                  |
| SE-20-0-0.5-11152024 | E29Z0          | Sediment/<br>M. Hartman       | Grab         | SVOA+SIM+1,4-D<br>SIM(21), ARO(21),<br>PEST(21), ICP-<br>MS+AES+Hg(21) | 1596 (None), 1597 (None),<br>1598 (None), 1599 (None) (4) | SE-20    | 11/15/2024 15:30     |                  |
| SW-09-11142024       | E29Z9          | Surface Water/<br>M. Hartman  | Grab         | ICP-MS+Hg(21)  | 1628 (HNO3) (1)   | SW-09    | 11/14/2024 15:35     |                  |
| SW-09-11142024-F     | E2A00          | Filtered Water/<br>M. Hartman | Grab         | ICP-MS+Hg (diss)(21)   | 1629 (HNO3) (1)   | SW-09    | 11/14/2024 15:35     | PH 1.9 ✓         |
| SW-11-11152024       | E2A01          | Surface Water/<br>M. Hartman  | Grab         | ICP-MS+Hg(21)  | 1634 (HNO3) (2)   | SW-11    | 11/15/2024 09:10     | ✓                |
| SW-11-11152024-F     | E2A02          | Filtered Water/<br>M. Hartman | Grab         | ICP-MS+Hg (diss)(21)   | 1635 (HNO3) (2)   | SW-11    | 11/15/2024 09:10     | ✓                |
| SW-13-11152024       | E2A03          | Surface Water/<br>M. Hartman  | Grab         | ICP-MS+Hg(21)  | 1640 (HNO3) (1)   | SW-13    | 11/15/2024 10:20     |                  |
| SW-13-11152024-F     | E2A04          | Filtered Water/<br>M. Hartman | Grab         | ICP-MS+Hg (diss)(21)   | 1641 (HNO3) (1)   | SW-13    | 11/15/2024 10:20     |                  |
| SW-15-11152024       | E2A05          | Surface Water/<br>M. Hartman  | Grab         | ICP-MS+Hg(21)  | 1646 (HNO3) (1)   | SW-15    | 11/15/2024 11:45     |                  |

Sample(s) to be used for Lab QC: SW-11-11152024 Tag 1634, SW-11-11152024-F Tag 1635 - Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM

244509 - 244510

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semi-volatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+AES+Hg=CLP ICP-MS+AES Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)

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 |
|--------------|--|------------------|--|---------------|-------------------------------|
|              | Moller Pohl EA                               | 11/15/24 (14:00) | QR                                       | 11/14/24 9:08 | RE-Cont # 2.1                 |
|              |  |                  |  |               | Custody Seal Intact           |
|              |  |                  |  |               | Top But preserved             |


## CHAIN OF CUSTODY RECORD

Case #: 51878

**No: 5-11524-101932-0081**  
**Lab: Alliance Technical Group LLC**  
**Lab Contact: Mohammad Ahmed**  
**Lab Phone: 908-789-8900**

[illegible]Shipment for Case Complete? N  
Samples Transferred From Chain of Custody #

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatilis+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+AES+Hg=CLP ICP-MS+AES Metals+Hg, ICP-MS+Hg=CLP ICP-MS Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time      | Received by (Signature and Organization)  | Date/Time        | Sample Condition Upon Receipt |
|--------------|--|----------------|---|------------------|-------------------------------|
|              | Melby Pol EA                                 | 11/18/24 18:00 |  | 9:00<br>11-16-24 | ID Card # 1 2.1               |
|              |  |                |   |                  | Custody Seal Intact           |
|              |  |                |   |                  | To O'Brien me                 |

Custody Seal intact  
Twp Blk present

FORM DC-1  
SAMPLE LOG-IN SHEET

|  |                      |                               |
|--|----------------------|-------------------------------|
| Lab Name : Alliance Technical Group, LLC     |                      | Page <u>1</u> of <u>2</u>     |
| Received By (Print Name) <u>GONGE WESLEY</u> |                      | Log-in Date <b>11/15/2024</b> |
| Received By (Signature) <u>[Signature]</u>   |                      |                               |
| Case Number <b>51878</b>                     | SDG No. <b>E29Z2</b> | MA No. <b>N/A</b>             |

|  |                                    |
|--|------------------------------------|
| Remarks:   |                                    |
| 1. Custody Seal (s)  | Present, Intact                    |
| 2. Custody Seal Nos.   | <u>244511-12</u>                   |
| 3. Traffic Reports/Chain Of Custody Records  | Present                            |
| 4. Airbill   | Present                            |
| 5. Airbill No. and Shipping Container ID No.   | <u>779967017584</u><br><u>1</u>    |
| 6. Shipping Container Temperature Indicator Bottle                                       | Present                            |
| 7. Shipping Container Temperature  | <u>1.6</u> Degree C                |
| 8. Sample Condition  | Intact                             |
| 9. Sample Tags<br>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   | <u>11/15/2024</u>                  |
| 12. Time Received  | <u>09:20</u>                       |

|    | EPA Sample # | Aqueous/<br>Water Sample pH | Corresponding |                | Remarks:<br>Condition of Sample Shipment, etc. |
|----|--------------|-----------------------------|---------------|----------------|--|
|    |              |                             | Sample Tag #  | Assigned Lab # |  |
| 1  | E29Z2        | 1.6                         | 1605          | P4878-01       | Intact   |
| 2  | E29Z4        | 1.6                         | 1611          | P4878-02       | Intact   |
| 3  | E29Z6        | 1.6                         | 1617          | P4878-03       | Intact   |
| 4  | E29Z8        | 1.6                         | 1623          | P4878-04       | Intact   |
| 5  | E2A14        | 1.6                         | 1675          | P4878-05       | Intact   |
| 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 <u>[Signature]</u> | Logbook No. <b>N/A</b>      |
| Date <u>11/15/24</u>           | Logbook Page No. <b>N/A</b> |

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>Aggrava Eric</u> |                      | Log-in Date <b>11/16/2024</b> |
| Received By (Signature) <u>[Signature]</u>   |                      |                               |
| Case Number <b>51878</b>                     | SDG No. <b>E29Z2</b> | MA No. <b>N/A</b>             |

|  |                                    |
|--|------------------------------------|
| Remarks:   |                                    |
| 1. Custody Seal (s)  | Present, Intact                    |
| 2. Custody Seal Nos.   | <u>244509-10</u>                   |
| 3. Traffic Reports/Chain Of Custody Records  | Present                            |
| 4. Airbill   | Present                            |
| 5. Airbill No. and Shipping Container ID No.   | <u>779982416111</u><br><u>2</u>    |
| 6. Shipping Container Temperature Indicator Bottle                                       | Present                            |
| 7. Shipping Container Temperature  | <u>2.1</u> Degree C                |
| 8. Sample Condition  | Intact                             |
| 9. Sample Tags<br>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   | <u>11/16/2024</u>                  |
| 12. Time Received  | <u>09:05</u>                       |

|    | EPA Sample # | Aqueous/<br>Water Sample pH | Corresponding |                | Remarks:<br>Condition of Sample Shipment, etc. |
|----|--------------|-----------------------------|---------------|----------------|--|
|    |              |                             | Sample Tag #  | Assigned Lab # |  |
| 1  | E2A00        | 1.9                         | 1629          | P4878-06       | Intact   |
| 2  | E2A02        | 1.9                         | 1635          | P4878-07       | Intact   |
| 3  | E2A02D       | 1.9                         | 1635          | P4878-08       | Intact   |
| 4  | E2A02S       | 1.9                         | 1635          | P4878-09       | Intact   |
| 5  | E2A04        | 1.9                         | 1641          | P4878-10       | Intact   |
| 6  | E2A06        | 1.9                         | 1647          | P4878-11       | Intact   |
| 7  | E2A08        | 1.9                         | 1653          | P4878-12       | Intact   |
| 8  | E2A10        | 1.9                         | 1659          | P4878-13       | 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 <u>[Signature]</u> | Logbook No. <b>N/A</b>      |
| Date <u>11/18/24</u>           | Logbook Page No. <b>N/A</b> |

FORM DC-2  
COMPLETE SDG FILE (CSF) INVENTORY SHEET

|              |                               |         |          |
|--------------|-------------------------------|---------|----------|
| LAB NAME     | Alliance Technical Group, LLC |         |          |
| LAB CODE     | ACE                           |         |          |
| CONTRACT NO. | 68HERH20D0011                 |         |          |
| CASE NO.     | 51878                         | SDG NO. | E29Z2    |
| 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         | 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  | ✓     |        |
| <b>Analysis Forms and Data (ICP-AES)</b>  |           |     |       |        |
| 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  | ✓     |        |
| <b>Other Data</b>   |           |     |       |        |
| 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  | ✓     |        |
| <b>Analysis Forms and Data (ICP-MS)</b>   |           |     |       |        |
| 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | 14        | 24  | ✓     |        |
| 18. Instrument raw data by instrument in analysis order   | 25        | 417 | ✓     |        |
| <b>Other Data</b>   |           |     |       |        |
| 19. Standard and Reagent Preparation Logs   | 418       | 557 | ✓     |        |
| 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks                                | 558       | 559 | ✓     |        |
| 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks                              | 560       | 563 | ✓     |        |
| 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions  | NA        | NA  | ✓     |        |

|  | <u>PAGE NOS:</u> |           | <u>CHECK</u> |               |
|--|------------------|-----------|--------------|---------------|
|  | <u>FROM</u>      | <u>TO</u> | <u>LAB</u>   | <u>REGION</u> |
| 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 | 564 | 574 | ✓ |  |
| 27 . Instrument raw data by instrument in analysis order   | 575 | 577 | ✓ |  |

#### Other Data

|   |     |     |   |  |
|---|-----|-----|---|--|
| 28 . Standard and Reagent Preparation Logs  | 578 | 608 | ✓ |  |
| 29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks   | 609 | 610 | ✓ |  |
| 30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 611 | 614 | ✓ |  |
| 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 | ✓ |  |



**Additional**

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 2)

Sample Tags

Sample Log-In Sheet (Lab)

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

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

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

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48. Comments:

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Completed by:  
(CLP Lab)

(Signature)

Nimisha Pandya, Document Control Officer

(Print Name &amp; Title)

(Date)

Audited by:  
(EPA)

(Signature)

(Print Name &amp; Title)

(Date)

| PAGE NOs: |     | CHECK |        |
|-----------|-----|-------|--------|
| FROM      | TO  | LAB   | REGION |
| 615       | 616 | ✓     |        |
| NA        | NA  | ✓     |        |
| 617       | 618 | ✓     |        |
| NA        | NA  | ✓     |        |
| 619       | 620 | ✓     |        |
| NA        | NA  | ✓     |        |



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## **SDG NARRATIVE**

**USEPA**

**SDG # E29Z2**

**CASE # 51878**

**CONTRACT # 68HERH20D0011**

**SOW# SFAM01.1**

**LAB NAME: Alliance Technical Group, LLC**

**LAB CODE: ACE**

**LAB ORDER ID # P4878**

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

11 Water samples were delivered to the laboratory intact on 11/15/2024, 11/16/2024.

### **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: 1.6°C, 2.1°C

### **D. Analytical Techniques:**

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

### **E. Calculation:**

#### **Calculation for ICP-MS Water Sample:**

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

$V_i$

Where,

$C$  = Instrument value in ppb (The average of all replicate integrations)

$V_f$  = Final digestion volume (mL)

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

$DF$  = Dilution Factor



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**Example Calculation For Sample E29Z2 For Arsenic:**

If C = 1.46 ppb

Vf = 50 ml

Vi = 50 ml

DF = 1

$$\text{Concentration or Result } (\mu\text{g/L}) = 1.46 \times \frac{50}{50} \times 1$$

$$= 1.46 \mu\text{g/L}$$

$$= 1.5 \mu\text{g/L} \text{ (Reported Result with Signification)}$$

**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 Sample E29Z2:**

If C = 0.0578 ppb

DF = 1

$$\text{Concentration or Result } (\mu\text{g/L}) = 0.0578 \times 1$$

$$= 0.0578 \mu\text{g/L}$$

$$= 0.058 \mu\text{g/L} \text{ (Reported Result with Signification)}$$

**F. 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.

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.



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Internal Standard Association for ICP-MS analysis.

| Target Analyte | Associated<br>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                            |
| Thallium       | 209Bi                           |
| Vanadium       | 45Sc                            |
| Zinc           | 45Sc                            |



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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