

## Bottom Ash Data

### 2026 Week 18

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The following analytical report represents bottom ash composite results for week 18 of 2026 (April 26, 2026 to May 2, 2026).

The bottom ash meets the conditions of Metro Vancouver's 2020 Bottom Ash Management Plan and is suitable for disposal.

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**CERTIFICATE OF ANALYSIS**

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|                                |                                                                 |                                |                                                      |
|--------------------------------|-----------------------------------------------------------------|--------------------------------|------------------------------------------------------|
| <b>Work Order</b>              | : <b>VA26B1006</b>                                              |                                |                                                      |
| <b>Client</b>                  | : <b>Veolia Environmental Services Canada</b>                   | <b>Laboratory</b>              | : ALS Environmental - Vancouver                      |
| <b>Contact</b>                 | : Darcie Grace                                                  | <b>Account Manager</b>         | : Gulraj Dhanaua                                     |
| <b>Address</b>                 | : 5150 Riverbend Dr.<br>Burnaby British Columbia Canada V3N 4V3 | <b>Address</b>                 | : 8081 Lougheed Highway<br>Burnaby BC Canada V5A 1W9 |
| <b>Telephone</b>               | : ----                                                          | <b>E-mail</b>                  | : Gulraj.Dhanaua@alsglobal.com                       |
| <b>Project</b>                 | : Veolia Weekly Bottom Ash-Suite                                | <b>Telephone</b>               | : +1 604 253 4188                                    |
| <b>PO</b>                      | : 1000620652                                                    | <b>Date Samples Received</b>   | : 05-May-2026 12:05                                  |
| <b>C-O-C number</b>            | : ----                                                          | <b>Date Analysis Commenced</b> | : 08-May-2026                                        |
| <b>Sampler</b>                 | : ----                                                          | <b>Issue Date</b>              | : 12-May-2026 19:23                                  |
| <b>Site</b>                    | : Metro Van Ash Sampling Program                                |                                |                                                      |
| <b>Quote number</b>            | : VA25-VISI100-001                                              |                                |                                                      |
| <b>No. of samples received</b> | : 12                                                            |                                |                                                      |
| <b>No. of samples analysed</b> | : 12                                                            |                                |                                                      |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

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**Signatories**

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                         | <i>Laboratory Department</i>        |
|--------------------|-----------------------------------------|-------------------------------------|
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation | Metals, Burnaby, British Columbia   |
| Robert Nguyen      | Analyst                                 | Metals, Burnaby, British Columbia   |
| Robin Weeks        | Supervisor - Organics Extractions       | Organics, Burnaby, British Columbia |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit     | Description             |
|----------|-------------------------|
| %        | percent                 |
| mg/kg    | milligrams per kilogram |
| mg/L     | milligrams per litre    |
| pH units | pH units                |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                     |
|-----------|-------------------------------------------------|
| DLA       | Detection Limit adjusted for required dilution. |



## Analytical Results

Sub-Matrix: Soil  
 (Matrix: Soil/Solid)

| Sub-Matrix: Soil<br>(Matrix: Soil/Solid) |            |            |        |          | Client sample ID  | BA 2618-A-1<br>---- | BA 2618-A-2<br>---- | BA 2618-A-3<br>---- | BA 2618-A-4<br>---- | BA 2618-A-5<br>---- |
|------------------------------------------|------------|------------|--------|----------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Client sampling date / time              |            |            |        |          | 04-May-2026 12:00 | 04-May-2026 12:00   | 04-May-2026 12:00   | 04-May-2026 12:00   | 04-May-2026 12:00   |                     |
| Analyte                                  | CAS Number | Method/Lab | LOR    | Unit     | VA26B1006-001     | VA26B1006-002       | VA26B1006-003       | VA26B1006-004       | VA26B1006-005       |                     |
|                                          |            |            |        |          | Result            | Result              | Result              | Result              | Result              |                     |
| Physical Tests                           |            |            |        |          |                   |                     |                     |                     |                     |                     |
| Moisture                                 | ----       | E144/VA    | 0.25   | %        | 21.8              | 20.8                | 22.2                | 21.8                | 22.3                |                     |
| pH (1:2 soil:water)                      | ----       | E108/VA    | 0.10   | pH units | 12.45             | 12.43               | 12.44               | 12.40               | 12.47               |                     |
| Metals                                   |            |            |        |          |                   |                     |                     |                     |                     |                     |
| Aluminum                                 | 7429-90-5  | E440/VA    | 50     | mg/kg    | 48400             | 44700               | 43300               | 45200               | 40500               |                     |
| Antimony                                 | 7440-36-0  | E440/VA    | 0.10   | mg/kg    | 180               | 184                 | 199                 | 191                 | 188                 |                     |
| Arsenic                                  | 7440-38-2  | E440/VA    | 0.10   | mg/kg    | 31.3              | 28.5                | 31.5                | 27.4                | 29.4                |                     |
| Barium                                   | 7440-39-3  | E440/VA    | 0.50   | mg/kg    | 650               | 660                 | 731                 | 681                 | 618                 |                     |
| Beryllium                                | 7440-41-7  | E440/VA    | 0.10   | mg/kg    | 0.43              | 0.39                | 0.64                | 0.39                | 0.36                |                     |
| Bismuth                                  | 7440-69-9  | E440/VA    | 0.20   | mg/kg    | 12.2              | 12.5                | 12.2                | 11.5                | 10.3                |                     |
| Boron                                    | 7440-42-8  | E440/VA    | 5.0    | mg/kg    | 170               | 180                 | 217                 | 131                 | 145                 |                     |
| Cadmium                                  | 7440-43-9  | E440/VA    | 0.020  | mg/kg    | 20.9              | 13.6                | 16.6                | 15.2                | 11.4                |                     |
| Calcium                                  | 7440-70-2  | E440/VA    | 50     | mg/kg    | 161000            | 169000              | 179000              | 159000              | 155000              |                     |
| Chromium                                 | 7440-47-3  | E440/VA    | 0.50   | mg/kg    | 179               | 209                 | 411                 | 180                 | 1450                |                     |
| Cobalt                                   | 7440-48-4  | E440/VA    | 0.10   | mg/kg    | 35.5              | 169                 | 69.4                | 79.2                | 114                 |                     |
| Copper                                   | 7440-50-8  | E440/VA    | 0.50   | mg/kg    | 1370              | 1410                | 3060                | 2340                | 1920                |                     |
| Iron                                     | 7439-89-6  | E440/VA    | 50     | mg/kg    | 40700             | 49800               | 62900               | 49300               | 59300               |                     |
| Lead                                     | 7439-92-1  | E440/VA    | 0.50   | mg/kg    | 673               | 472                 | 617                 | 428                 | 1350                |                     |
| Lithium                                  | 7439-93-2  | E440/VA    | 2.0    | mg/kg    | 35.9              | 65.1                | 34.4                | 30.9                | 29.1                |                     |
| Magnesium                                | 7439-95-4  | E440/VA    | 20     | mg/kg    | 12900             | 14800               | 14700               | 12500               | 10900               |                     |
| Manganese                                | 7439-96-5  | E440/VA    | 1.0    | mg/kg    | 911               | 949                 | 865                 | 903                 | 968                 |                     |
| Mercury                                  | 7439-97-6  | E510/VA    | 0.0500 | mg/kg    | <0.0500           | 0.0544              | <0.0500             | 0.0540              | <0.0500             |                     |



## Analytical Results

Sub-Matrix: Soil  
 (Matrix: Soil/Solid)

|                                   |            |            |       |          | Client sample ID            | BA 2618-A-1       | BA 2618-A-2       | BA 2618-A-3       | BA 2618-A-4       | BA 2618-A-5       |
|-----------------------------------|------------|------------|-------|----------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                   |            |            |       |          | Client sampling date / time | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 |
| Analyte                           | CAS Number | Method/Lab | LOR   | Unit     |                             | VA26B1006-001     | VA26B1006-002     | VA26B1006-003     | VA26B1006-004     | VA26B1006-005     |
|                                   |            |            |       |          |                             | Result            | Result            | Result            | Result            | Result            |
| <b>Metals</b>                     |            |            |       |          |                             |                   |                   |                   |                   |                   |
| Molybdenum                        | 7439-98-7  | E440/VA    | 0.10  | mg/kg    |                             | 17.1              | 61.3              | 26.5              | 19.4              | 263               |
| Nickel                            | 7440-02-0  | E440/VA    | 0.50  | mg/kg    |                             | 136               | 198               | 471               | 163               | 1470              |
| Phosphorus                        | 7723-14-0  | E440/VA    | 50    | mg/kg    |                             | 8610              | 9540              | 10500             | 8120              | 9800              |
| Potassium                         | 7440-09-7  | E440/VA    | 100   | mg/kg    |                             | 6820              | 7000              | 8420              | 7650              | 7060              |
| Selenium                          | 7782-49-2  | E440/VA    | 0.20  | mg/kg    |                             | 0.72              | 0.60              | 0.73              | 0.78              | 0.62              |
| Silver                            | 7440-22-4  | E440/VA    | 0.10  | mg/kg    |                             | 6.84              | 6.71              | 7.74              | 6.71              | 5.58              |
| Sodium                            | 7440-23-5  | E440/VA    | 50    | mg/kg    |                             | 16700             | 18600             | 20700             | 18200             | 17700             |
| Strontium                         | 7440-24-6  | E440/VA    | 0.50  | mg/kg    |                             | 377               | 394               | 386               | 361               | 327               |
| Sulfur                            | 7704-34-9  | E440/VA    | 1000  | mg/kg    |                             | 12000             | 12000             | 13600             | 11900             | 10800             |
| Thallium                          | 7440-28-0  | E440/VA    | 0.050 | mg/kg    |                             | <0.050            | <0.050            | <0.050            | <0.050            | <0.050            |
| Tin                               | 7440-31-5  | E440/VA    | 2.0   | mg/kg    |                             | 148               | 169               | 158               | 155               | 131               |
| Titanium                          | 7440-32-6  | E440/VA    | 1.0   | mg/kg    |                             | 677               | 444               | 519               | 568               | 279               |
| Tungsten                          | 7440-33-7  | E440/VA    | 0.50  | mg/kg    |                             | 43.9              | 35.6              | 86.3              | 38.9              | 72.2              |
| Uranium                           | 7440-61-1  | E440/VA    | 0.050 | mg/kg    |                             | 1.76              | 1.86              | 1.77              | 1.73              | 1.55              |
| Vanadium                          | 7440-62-2  | E440/VA    | 0.20  | mg/kg    |                             | 36.0              | 35.5              | 57.7              | 34.8              | 37.0              |
| Zinc                              | 7440-66-6  | E440/VA    | 2.0   | mg/kg    |                             | 3900              | 5440              | 4410              | 4350              | 4410              |
| Zirconium                         | 7440-67-7  | E440/VA    | 1.0   | mg/kg    |                             | 1.7               | 1.7               | 1.4               | 1.6               | 2.6               |
| <b>TCLP Metals</b>                |            |            |       |          |                             |                   |                   |                   |                   |                   |
| pH, TCLP 1st preliminary          | ----       | EPP444/VA  | 0.010 | pH units |                             | 11.78             | 11.89             | 12.02             | 11.95             | 12.00             |
| pH, TCLP 2nd preliminary          | ----       | EPP444/VA  | 0.010 | pH units |                             | 5.98              | 7.07              | 8.90              | 8.58              | 8.97              |
| pH, TCLP extraction fluid initial | ----       | EPP444/VA  | 0.010 | pH units |                             | 2.91              | 2.91              | 2.91              | 2.91              | 2.91              |



## Analytical Results

Sub-Matrix: Soil  
 (Matrix: Soil/Solid)

|                    |            |            |        |          | Client sample ID            | BA 2618-A-1       | BA 2618-A-2       | BA 2618-A-3       | BA 2618-A-4       | BA 2618-A-5       |
|--------------------|------------|------------|--------|----------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                    |            |            |        |          | Client sampling date / time | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 |
| Analyte            | CAS Number | Method/Lab | LOR    | Unit     |                             | VA26B1006-001     | VA26B1006-002     | VA26B1006-003     | VA26B1006-004     | VA26B1006-005     |
|                    |            |            |        |          |                             | Result            | Result            | Result            | Result            | Result            |
| <b>TCLP Metals</b> |            |            |        |          |                             |                   |                   |                   |                   |                   |
| pH, TCLP final     | ----       | EPP444/VA  | 0.010  | pH units |                             | 9.20              | 9.15              | 9.50              | 9.71              | 9.49              |
| Antimony, TCLP     | 7440-36-0  | E444/VA    | 1.00   | mg/L     |                             | <1.00             | <1.00             | <1.00             | <1.00             | <1.00             |
| Arsenic, TCLP      | 7440-38-2  | E444/VA    | 1.0    | mg/L     |                             | <1.0              | <1.0              | <1.0              | <1.0              | <1.0              |
| Barium, TCLP       | 7440-39-3  | E444/VA    | 2.5    | mg/L     |                             | <2.5              | <2.5              | <2.5              | <2.5              | <2.5              |
| Beryllium, TCLP    | 7440-41-7  | E444/VA    | 0.025  | mg/L     |                             | <0.025            | <0.025            | <0.025            | <0.025            | <0.025            |
| Boron, TCLP        | 7440-42-8  | E444/VA    | 0.50   | mg/L     |                             | 1.22              | 1.27              | 1.25              | 1.18              | 1.25              |
| Cadmium, TCLP      | 7440-43-9  | E444/VA    | 0.050  | mg/L     |                             | <0.050            | <0.050            | <0.050            | <0.050            | <0.050            |
| Calcium, TCLP      | 7440-70-2  | E444/VA    | 10     | mg/L     |                             | 2000              | 1940              | 2060              | 2050              | 1980              |
| Chromium, TCLP     | 7440-47-3  | E444/VA    | 0.25   | mg/L     |                             | <0.25             | <0.25             | <0.25             | <0.25             | <0.25             |
| Cobalt, TCLP       | 7440-48-4  | E444/VA    | 0.050  | mg/L     |                             | <0.050            | <0.050            | <0.050            | <0.050            | <0.050            |
| Copper, TCLP       | 7440-50-8  | E444/VA    | 0.050  | mg/L     |                             | 0.327             | 0.337             | 0.344             | 0.357             | 0.340             |
| Iron, TCLP         | 7439-89-6  | E444/VA    | 5.0    | mg/L     |                             | <5.0              | <5.0              | <5.0              | <5.0              | <5.0              |
| Lead, TCLP         | 7439-92-1  | E444/VA    | 0.25   | mg/L     |                             | <0.25             | <0.25             | <0.25             | <0.25             | <0.25             |
| Magnesium, TCLP    | 7439-95-4  | E444/VA    | 2.5    | mg/L     |                             | 60.8              | 75.5              | 66.3              | 58.1              | 65.8              |
| Mercury, TCLP      | 7439-97-6  | E512/VA    | 0.0010 | mg/L     |                             | <0.0010           | <0.0010           | <0.0010           | <0.0010           | <0.0010           |
| Nickel, TCLP       | 7440-02-0  | E444/VA    | 0.25   | mg/L     |                             | <0.25             | <0.25             | <0.25             | <0.25             | <0.25             |
| Selenium, TCLP     | 7782-49-2  | E444/VA    | 0.10   | mg/L     |                             | <0.10             | <0.10             | <0.10             | <0.10             | <0.10             |
| Silver, TCLP       | 7440-22-4  | E444/VA    | 0.050  | mg/L     |                             | <0.050            | <0.050            | <0.050            | <0.050            | <0.050            |
| Thallium, TCLP     | 7440-28-0  | E444/VA    | 1.0    | mg/L     |                             | <1.0              | <1.0              | <1.0              | <1.0              | <1.0              |
| Uranium, TCLP      | 7440-61-1  | E444/VA    | 0.20   | mg/L     |                             | <0.20             | <0.20             | <0.20             | <0.20             | <0.20             |
| Vanadium, TCLP     | 7440-62-2  | E444/VA    | 0.15   | mg/L     |                             | <0.15             | <0.15             | <0.15             | <0.15             | <0.15             |



## Analytical Results

| Sub-Matrix: Soil<br>(Matrix: Soil/Solid) |            |            |      |      | Client sample ID            | BA 2618-A-1<br>---- | BA 2618-A-2<br>---- | BA 2618-A-3<br>---- | BA 2618-A-4<br>---- | BA 2618-A-5<br>---- |
|------------------------------------------|------------|------------|------|------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                                          |            |            |      |      | Client sampling date / time | 04-May-2026 12:00   | 04-May-2026 12:00   | 04-May-2026 12:00   | 04-May-2026 12:00   | 04-May-2026 12:00   |
| Analyte                                  | CAS Number | Method/Lab | LOR  | Unit |                             | VA26B1006-001       | VA26B1006-002       | VA26B1006-003       | VA26B1006-004       | VA26B1006-005       |
|                                          |            |            |      |      |                             | Result              | Result              | Result              | Result              | Result              |
| TCLP Metals                              |            |            |      |      |                             |                     |                     |                     |                     |                     |
| Zinc, TCLP                               | 7440-66-6  | E444/VA    | 0.50 | mg/L |                             | <0.50               | <0.50               | <0.50               | <0.50               | <0.50               |
| Zirconium, TCLP                          | 7440-67-7  | E444/VA    | 10   | mg/L |                             | <10                 | <10                 | <10                 | <10                 | <10                 |

Please refer to the General Comments section for an explanation of any qualifiers detected.

## Analytical Results

| Sub-Matrix: Soil<br>(Matrix: Soil/Solid) |            |            |       |          | Client sample ID            | BA 2618-A-6<br>---- | BA 2618-A-7<br>---- | BA 2618-A-8<br>---- | BA 2618-A-9<br>---- | BA 2618-A-10<br>---- |
|------------------------------------------|------------|------------|-------|----------|-----------------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
|                                          |            |            |       |          | Client sampling date / time | 04-May-2026 12:00   | 04-May-2026 12:00   | 04-May-2026 12:00   | 04-May-2026 12:00   | 04-May-2026 12:00    |
| Analyte                                  | CAS Number | Method/Lab | LOR   | Unit     |                             | VA26B1006-006       | VA26B1006-007       | VA26B1006-008       | VA26B1006-009       | VA26B1006-010        |
|                                          |            |            |       |          |                             | Result              | Result              | Result              | Result              | Result               |
| Physical Tests                           |            |            |       |          |                             |                     |                     |                     |                     |                      |
| Moisture                                 | ----       | E144/VA    | 0.25  | %        |                             | 23.1                | 21.2                | 22.0                | 20.7                | 22.7                 |
| pH (1:2 soil:water)                      | ----       | E108/VA    | 0.10  | pH units |                             | 12.44               | 12.40               | 12.42               | 12.37               | 12.42                |
| Metals                                   |            |            |       |          |                             |                     |                     |                     |                     |                      |
| Aluminum                                 | 7429-90-5  | E440/VA    | 50    | mg/kg    |                             | 54000               | 47500               | 40300               | 31800               | 42700                |
| Antimony                                 | 7440-36-0  | E440/VA    | 0.10  | mg/kg    |                             | 160                 | 176                 | 204                 | 185                 | 155                  |
| Arsenic                                  | 7440-38-2  | E440/VA    | 0.10  | mg/kg    |                             | 27.8                | 27.0                | 31.0                | 29.2                | 27.3                 |
| Barium                                   | 7440-39-3  | E440/VA    | 0.50  | mg/kg    |                             | 569                 | 535                 | 675                 | 533                 | 635                  |
| Beryllium                                | 7440-41-7  | E440/VA    | 0.10  | mg/kg    |                             | 0.36                | 0.39                | 0.42                | 0.38                | 0.42                 |
| Bismuth                                  | 7440-69-9  | E440/VA    | 0.20  | mg/kg    |                             | 11.5                | 92.8                | 12.9                | 11.5                | 32.0                 |
| Boron                                    | 7440-42-8  | E440/VA    | 5.0   | mg/kg    |                             | 116                 | 217                 | 159                 | 167                 | 227                  |
| Cadmium                                  | 7440-43-9  | E440/VA    | 0.020 | mg/kg    |                             | 9.90                | 11.4                | 13.2                | 11.9                | 12.9                 |
| Calcium                                  | 7440-70-2  | E440/VA    | 50    | mg/kg    |                             | 150000              | 164000              | 190000              | 157000              | 166000               |



## Analytical Results

Sub-Matrix: Soil  
 (Matrix: Soil/Solid)

|               |            |            |        |       | Client sample ID            | BA 2618-A-6       | BA 2618-A-7       | BA 2618-A-8       | BA 2618-A-9       | BA 2618-A-10      |
|---------------|------------|------------|--------|-------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|               |            |            |        |       | Client sampling date / time | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 |
| Analyte       | CAS Number | Method/Lab | LOR    | Unit  |                             | VA26B1006-006     | VA26B1006-007     | VA26B1006-008     | VA26B1006-009     | VA26B1006-010     |
|               |            |            |        |       |                             | Result            | Result            | Result            | Result            | Result            |
| <b>Metals</b> |            |            |        |       |                             |                   |                   |                   |                   |                   |
| Chromium      | 7440-47-3  | E440/VA    | 0.50   | mg/kg |                             | 188               | 344               | 259               | 233               | 158               |
| Cobalt        | 7440-48-4  | E440/VA    | 0.10   | mg/kg |                             | 35.4              | 93.7              | 47.3              | 57.2              | 33.3              |
| Copper        | 7440-50-8  | E440/VA    | 0.50   | mg/kg |                             | 1540              | 6600              | 1830              | 2710              | 18400             |
| Iron          | 7439-89-6  | E440/VA    | 50     | mg/kg |                             | 55000             | 59500             | 65300             | 77300             | 45200             |
| Lead          | 7439-92-1  | E440/VA    | 0.50   | mg/kg |                             | 403               | 431               | 1150              | 441               | 709               |
| Lithium       | 7439-93-2  | E440/VA    | 2.0    | mg/kg |                             | 24.5              | 32.0              | 76.2              | 25.7              | 25.6              |
| Magnesium     | 7439-95-4  | E440/VA    | 20     | mg/kg |                             | 11100             | 11700             | 12200             | 11000             | 12200             |
| Manganese     | 7439-96-5  | E440/VA    | 1.0    | mg/kg |                             | 1590              | 1100              | 1680              | 780               | 762               |
| Mercury       | 7439-97-6  | E510/VA    | 0.0500 | mg/kg |                             | <0.0500           | <0.0500           | <0.0500           | <0.0500           | 0.0812            |
| Molybdenum    | 7439-98-7  | E440/VA    | 0.10   | mg/kg |                             | 40.7              | 61.6              | 18.5              | 24.1              | 16.0              |
| Nickel        | 7440-02-0  | E440/VA    | 0.50   | mg/kg |                             | 201               | 380               | 189               | 154               | 140               |
| Phosphorus    | 7723-14-0  | E440/VA    | 50     | mg/kg |                             | 9780              | 9280              | 9480              | 8810              | 7100              |
| Potassium     | 7440-09-7  | E440/VA    | 100    | mg/kg |                             | 6940              | 6810              | 8810              | 6820              | 7090              |
| Selenium      | 7782-49-2  | E440/VA    | 0.20   | mg/kg |                             | 0.51              | 0.73              | 0.63              | 1.05              | <0.71 DLA         |
| Silver        | 7440-22-4  | E440/VA    | 0.10   | mg/kg |                             | 5.65              | 10.4              | 10.9              | 7.78              | 8.31              |
| Sodium        | 7440-23-5  | E440/VA    | 50     | mg/kg |                             | 16800             | 16500             | 20000             | 16800             | 17800             |
| Strontium     | 7440-24-6  | E440/VA    | 0.50   | mg/kg |                             | 333               | 382               | 419               | 372               | 323               |
| Sulfur        | 7704-34-9  | E440/VA    | 1000   | mg/kg |                             | 11600             | 12600             | 12200             | 12500             | 9200              |
| Thallium      | 7440-28-0  | E440/VA    | 0.050  | mg/kg |                             | <0.050            | <0.050            | 0.054             | <0.050            | 0.298             |
| Tin           | 7440-31-5  | E440/VA    | 2.0    | mg/kg |                             | 145               | 309               | 169               | 142               | 133               |
| Titanium      | 7440-32-6  | E440/VA    | 1.0    | mg/kg |                             | 492               | 454               | 337               | 355               | 383               |



## Analytical Results

Sub-Matrix: Soil  
 (Matrix: Soil/Solid)

|                                   |            |            |       |          | Client sample ID            | BA 2618-A-6       | BA 2618-A-7       | BA 2618-A-8       | BA 2618-A-9       | BA 2618-A-10      |
|-----------------------------------|------------|------------|-------|----------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                   |            |            |       |          | Client sampling date / time | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 |
| Analyte                           | CAS Number | Method/Lab | LOR   | Unit     |                             | VA26B1006-006     | VA26B1006-007     | VA26B1006-008     | VA26B1006-009     | VA26B1006-010     |
|                                   |            |            |       |          |                             | Result            | Result            | Result            | Result            | Result            |
| <b>Metals</b>                     |            |            |       |          |                             |                   |                   |                   |                   |                   |
| Tungsten                          | 7440-33-7  | E440/VA    | 0.50  | mg/kg    |                             | 44.7              | 55.7              | 131               | 38.6              | 37.8              |
| Uranium                           | 7440-61-1  | E440/VA    | 0.050 | mg/kg    |                             | 1.59              | 1.56              | 1.73              | 1.63              | 1.68              |
| Vanadium                          | 7440-62-2  | E440/VA    | 0.20  | mg/kg    |                             | 37.0              | 32.9              | 40.9              | 32.1              | 31.4              |
| Zinc                              | 7440-66-6  | E440/VA    | 2.0   | mg/kg    |                             | 4070              | 4060              | 4580              | 4110              | 11300             |
| Zirconium                         | 7440-67-7  | E440/VA    | 1.0   | mg/kg    |                             | 3.1               | 2.2               | 2.2               | 1.1               | <3.5 DLA          |
| <b>TCLP Metals</b>                |            |            |       |          |                             |                   |                   |                   |                   |                   |
| pH, TCLP 1st preliminary          | ----       | EPP444/VA  | 0.010 | pH units |                             | 12.01             | 12.03             | 12.01             | 12.02             | 12.02             |
| pH, TCLP 2nd preliminary          | ----       | EPP444/VA  | 0.010 | pH units |                             | 8.87              | 9.31              | 8.94              | 9.46              | 10.45             |
| pH, TCLP extraction fluid initial | ----       | EPP444/VA  | 0.010 | pH units |                             | 2.91              | 2.91              | 2.91              | 2.91              | 2.91              |
| pH, TCLP final                    | ----       | EPP444/VA  | 0.010 | pH units |                             | 9.75              | 9.74              | 9.60              | 9.21              | 9.62              |
| Antimony, TCLP                    | 7440-36-0  | E444/VA    | 1.00  | mg/L     |                             | <1.00             | <1.00             | <1.00             | <1.00             | <1.00             |
| Arsenic, TCLP                     | 7440-38-2  | E444/VA    | 1.0   | mg/L     |                             | <1.0              | <1.0              | <1.0              | <1.0              | <1.0              |
| Barium, TCLP                      | 7440-39-3  | E444/VA    | 2.5   | mg/L     |                             | <2.5              | <2.5              | <2.5              | <2.5              | <2.5              |
| Beryllium, TCLP                   | 7440-41-7  | E444/VA    | 0.025 | mg/L     |                             | <0.025            | <0.025            | <0.025            | <0.025            | <0.025            |
| Boron, TCLP                       | 7440-42-8  | E444/VA    | 0.50  | mg/L     |                             | 1.17              | 1.19              | 1.23              | 1.35              | 1.24              |
| Cadmium, TCLP                     | 7440-43-9  | E444/VA    | 0.050 | mg/L     |                             | <0.050            | <0.050            | <0.050            | <0.050            | <0.050            |
| Calcium, TCLP                     | 7440-70-2  | E444/VA    | 10    | mg/L     |                             | 1960              | 2050              | 2010              | 2020              | 2080              |
| Chromium, TCLP                    | 7440-47-3  | E444/VA    | 0.25  | mg/L     |                             | <0.25             | <0.25             | <0.25             | <0.25             | <0.25             |
| Cobalt, TCLP                      | 7440-48-4  | E444/VA    | 0.050 | mg/L     |                             | <0.050            | <0.050            | <0.050            | <0.050            | <0.050            |
| Copper, TCLP                      | 7440-50-8  | E444/VA    | 0.050 | mg/L     |                             | 0.343             | 0.330             | 0.321             | 0.383             | 0.322             |
| Iron, TCLP                        | 7439-89-6  | E444/VA    | 5.0   | mg/L     |                             | <5.0              | <5.0              | <5.0              | <5.0              | <5.0              |



## Analytical Results

Sub-Matrix: Soil  
 (Matrix: Soil/Solid)

|                    |            |            |        |      | Client sample ID            | BA 2618-A-6       | BA 2618-A-7       | BA 2618-A-8       | BA 2618-A-9       | BA 2618-A-10      |
|--------------------|------------|------------|--------|------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                    |            |            |        |      | Client sampling date / time | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 | 04-May-2026 12:00 |
| Analyte            | CAS Number | Method/Lab | LOR    | Unit |                             | VA26B1006-006     | VA26B1006-007     | VA26B1006-008     | VA26B1006-009     | VA26B1006-010     |
|                    |            |            |        |      |                             | Result            | Result            | Result            | Result            | Result            |
| <b>TCLP Metals</b> |            |            |        |      |                             |                   |                   |                   |                   |                   |
| Lead, TCLP         | 7439-92-1  | E444/VA    | 0.25   | mg/L |                             | <0.25             | <0.25             | <0.25             | <0.25             | <0.25             |
| Magnesium, TCLP    | 7439-95-4  | E444/VA    | 2.5    | mg/L |                             | 56.0              | 57.5              | 62.7              | 73.4              | 62.1              |
| Mercury, TCLP      | 7439-97-6  | E512/VA    | 0.0010 | mg/L |                             | <0.0010           | <0.0010           | <0.0010           | <0.0010           | <0.0010           |
| Nickel, TCLP       | 7440-02-0  | E444/VA    | 0.25   | mg/L |                             | <0.25             | <0.25             | <0.25             | <0.25             | <0.25             |
| Selenium, TCLP     | 7782-49-2  | E444/VA    | 0.10   | mg/L |                             | <0.10             | <0.10             | <0.10             | <0.10             | <0.10             |
| Silver, TCLP       | 7440-22-4  | E444/VA    | 0.050  | mg/L |                             | <0.050            | <0.050            | <0.050            | <0.050            | <0.050            |
| Thallium, TCLP     | 7440-28-0  | E444/VA    | 1.0    | mg/L |                             | <1.0              | <1.0              | <1.0              | <1.0              | <1.0              |
| Uranium, TCLP      | 7440-61-1  | E444/VA    | 0.20   | mg/L |                             | <0.20             | <0.20             | <0.20             | <0.20             | <0.20             |
| Vanadium, TCLP     | 7440-62-2  | E444/VA    | 0.15   | mg/L |                             | <0.15             | <0.15             | <0.15             | <0.15             | <0.15             |
| Zinc, TCLP         | 7440-66-6  | E444/VA    | 0.50   | mg/L |                             | <0.50             | <0.50             | <0.50             | <0.50             | <0.50             |
| Zirconium, TCLP    | 7440-67-7  | E444/VA    | 10     | mg/L |                             | <10               | <10               | <10               | <10               | <10               |

Please refer to the General Comments section for an explanation of any qualifiers detected.

## Analytical Results

Sub-Matrix: Soil  
 (Matrix: Soil/Solid)

|                       |            |            |      |          | Client sample ID            | BA 2618-A-11      | BA 2618-A-12      | ---- | ---- | ---- |
|-----------------------|------------|------------|------|----------|-----------------------------|-------------------|-------------------|------|------|------|
|                       |            |            |      |          | Client sampling date / time | 04-May-2026 12:00 | 04-May-2026 12:00 | ---- | ---- | ---- |
| Analyte               | CAS Number | Method/Lab | LOR  | Unit     |                             | VA26B1006-011     | VA26B1006-012     | ---- | ---- | ---- |
|                       |            |            |      |          |                             | Result            | Result            | ---- | ---- | ---- |
| <b>Physical Tests</b> |            |            |      |          |                             |                   |                   |      |      |      |
| Moisture              | ----       | E144/VA    | 0.25 | %        |                             | 22.7              | 21.8              | ---- | ---- | ---- |
| pH (1:2 soil:water)   | ----       | E108/VA    | 0.10 | pH units |                             | 12.43             | 12.46             | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Soil  
 (Matrix: Soil/Solid)

|               |            |            |        |       | Client sample ID            | BA 2618-A-11      | BA 2618-A-12      | ---- | ---- | ---- |
|---------------|------------|------------|--------|-------|-----------------------------|-------------------|-------------------|------|------|------|
|               |            |            |        |       | Client sampling date / time | 04-May-2026 12:00 | 04-May-2026 12:00 | ---- | ---- | ---- |
| Analyte       | CAS Number | Method/Lab | LOR    | Unit  | VA26B1006-011               | VA26B1006-012     | ----              | ---- | ---- | ---- |
|               |            |            |        |       | Result                      | Result            | ----              | ---- | ---- | ---- |
| <b>Metals</b> |            |            |        |       |                             |                   |                   |      |      |      |
| Aluminum      | 7429-90-5  | E440/VA    | 50     | mg/kg | 44900                       | 36000             | ----              | ---- | ---- | ---- |
| Antimony      | 7440-36-0  | E440/VA    | 0.10   | mg/kg | 178                         | 185               | ----              | ---- | ---- | ---- |
| Arsenic       | 7440-38-2  | E440/VA    | 0.10   | mg/kg | 28.8                        | 28.1              | ----              | ---- | ---- | ---- |
| Barium        | 7440-39-3  | E440/VA    | 0.50   | mg/kg | 598                         | 639               | ----              | ---- | ---- | ---- |
| Beryllium     | 7440-41-7  | E440/VA    | 0.10   | mg/kg | 0.36                        | 0.46              | ----              | ---- | ---- | ---- |
| Bismuth       | 7440-69-9  | E440/VA    | 0.20   | mg/kg | 12.4                        | 13.2              | ----              | ---- | ---- | ---- |
| Boron         | 7440-42-8  | E440/VA    | 5.0    | mg/kg | 125                         | 188               | ----              | ---- | ---- | ---- |
| Cadmium       | 7440-43-9  | E440/VA    | 0.020  | mg/kg | 13.1                        | 14.9              | ----              | ---- | ---- | ---- |
| Calcium       | 7440-70-2  | E440/VA    | 50     | mg/kg | 152000                      | 169000            | ----              | ---- | ---- | ---- |
| Chromium      | 7440-47-3  | E440/VA    | 0.50   | mg/kg | 522                         | 227               | ----              | ---- | ---- | ---- |
| Cobalt        | 7440-48-4  | E440/VA    | 0.10   | mg/kg | 67.1                        | 102               | ----              | ---- | ---- | ---- |
| Copper        | 7440-50-8  | E440/VA    | 0.50   | mg/kg | 1690                        | 2450              | ----              | ---- | ---- | ---- |
| Iron          | 7439-89-6  | E440/VA    | 50     | mg/kg | 56700                       | 46500             | ----              | ---- | ---- | ---- |
| Lead          | 7439-92-1  | E440/VA    | 0.50   | mg/kg | 776                         | 791               | ----              | ---- | ---- | ---- |
| Lithium       | 7439-93-2  | E440/VA    | 2.0    | mg/kg | 25.6                        | 33.2              | ----              | ---- | ---- | ---- |
| Magnesium     | 7439-95-4  | E440/VA    | 20     | mg/kg | 10900                       | 11600             | ----              | ---- | ---- | ---- |
| Manganese     | 7439-96-5  | E440/VA    | 1.0    | mg/kg | 879                         | 822               | ----              | ---- | ---- | ---- |
| Mercury       | 7439-97-6  | E510/VA    | 0.0500 | mg/kg | <0.0500                     | 0.0600            | ----              | ---- | ---- | ---- |
| Molybdenum    | 7439-98-7  | E440/VA    | 0.10   | mg/kg | 22.1                        | 19.6              | ----              | ---- | ---- | ---- |
| Nickel        | 7440-02-0  | E440/VA    | 0.50   | mg/kg | 321                         | 161               | ----              | ---- | ---- | ---- |
| Phosphorus    | 7723-14-0  | E440/VA    | 50     | mg/kg | 8260                        | 10200             | ----              | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Soil  
 (Matrix: Soil/Solid)

|                                   |            |            |       |          | Client sample ID            | BA 2618-A-11      | BA 2618-A-12      | ---- | ---- | ---- |
|-----------------------------------|------------|------------|-------|----------|-----------------------------|-------------------|-------------------|------|------|------|
|                                   |            |            |       |          | Client sampling date / time | 04-May-2026 12:00 | 04-May-2026 12:00 | ---- | ---- | ---- |
| Analyte                           | CAS Number | Method/Lab | LOR   | Unit     | VA26B1006-011               | VA26B1006-012     | ----              | ---- | ---- | ---- |
|                                   |            |            |       |          | Result                      | Result            | ----              | ---- | ---- | ---- |
| <b>Metals</b>                     |            |            |       |          |                             |                   |                   |      |      |      |
| Potassium                         | 7440-09-7  | E440/VA    | 100   | mg/kg    | 7120                        | 6800              | ----              | ---- | ---- | ---- |
| Selenium                          | 7782-49-2  | E440/VA    | 0.20  | mg/kg    | 0.52                        | 0.62              | ----              | ---- | ---- | ---- |
| Silver                            | 7440-22-4  | E440/VA    | 0.10  | mg/kg    | 6.84                        | 7.45              | ----              | ---- | ---- | ---- |
| Sodium                            | 7440-23-5  | E440/VA    | 50    | mg/kg    | 17000                       | 17800             | ----              | ---- | ---- | ---- |
| Strontium                         | 7440-24-6  | E440/VA    | 0.50  | mg/kg    | 367                         | 366               | ----              | ---- | ---- | ---- |
| Sulfur                            | 7704-34-9  | E440/VA    | 1000  | mg/kg    | 11000                       | 11200             | ----              | ---- | ---- | ---- |
| Thallium                          | 7440-28-0  | E440/VA    | 0.050 | mg/kg    | <0.050                      | <0.050            | ----              | ---- | ---- | ---- |
| Tin                               | 7440-31-5  | E440/VA    | 2.0   | mg/kg    | 160                         | 200               | ----              | ---- | ---- | ---- |
| Titanium                          | 7440-32-6  | E440/VA    | 1.0   | mg/kg    | 427                         | 270               | ----              | ---- | ---- | ---- |
| Tungsten                          | 7440-33-7  | E440/VA    | 0.50  | mg/kg    | 50.4                        | 39.7              | ----              | ---- | ---- | ---- |
| Uranium                           | 7440-61-1  | E440/VA    | 0.050 | mg/kg    | 1.57                        | 1.67              | ----              | ---- | ---- | ---- |
| Vanadium                          | 7440-62-2  | E440/VA    | 0.20  | mg/kg    | 38.1                        | 30.3              | ----              | ---- | ---- | ---- |
| Zinc                              | 7440-66-6  | E440/VA    | 2.0   | mg/kg    | 5270                        | 5940              | ----              | ---- | ---- | ---- |
| Zirconium                         | 7440-67-7  | E440/VA    | 1.0   | mg/kg    | 1.7                         | 1.4               | ----              | ---- | ---- | ---- |
| <b>TCLP Metals</b>                |            |            |       |          |                             |                   |                   |      |      |      |
| pH, TCLP 1st preliminary          | ----       | EPP444/VA  | 0.010 | pH units | 11.98                       | 11.93             | ----              | ---- | ---- | ---- |
| pH, TCLP 2nd preliminary          | ----       | EPP444/VA  | 0.010 | pH units | 9.03                        | 7.47              | ----              | ---- | ---- | ---- |
| pH, TCLP extraction fluid initial | ----       | EPP444/VA  | 0.010 | pH units | 2.91                        | 2.91              | ----              | ---- | ---- | ---- |
| pH, TCLP final                    | ----       | EPP444/VA  | 0.010 | pH units | 9.55                        | 9.25              | ----              | ---- | ---- | ---- |
| Antimony, TCLP                    | 7440-36-0  | E444/VA    | 1.00  | mg/L     | <1.00                       | <1.00             | ----              | ---- | ---- | ---- |
| Arsenic, TCLP                     | 7440-38-2  | E444/VA    | 1.0   | mg/L     | <1.0                        | <1.0              | ----              | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Soil  
 (Matrix: Soil/Solid)

|                 |            |            |        |      | Client sample ID            | BA 2618-A-11      | BA 2618-A-12      | ---- | ---- | ---- |
|-----------------|------------|------------|--------|------|-----------------------------|-------------------|-------------------|------|------|------|
|                 |            |            |        |      | Client sampling date / time | 04-May-2026 12:00 | 04-May-2026 12:00 | ---- | ---- | ---- |
| Analyte         | CAS Number | Method/Lab | LOR    | Unit | VA26B1006-011               | VA26B1006-012     | ----              | ---- | ---- | ---- |
|                 |            |            |        |      | Result                      | Result            | ----              | ---- | ---- | ---- |
| TCLP Metals     |            |            |        |      |                             |                   |                   |      |      |      |
| Barium, TCLP    | 7440-39-3  | E444/VA    | 2.5    | mg/L | <2.5                        | <2.5              | ----              | ---- | ---- | ---- |
| Beryllium, TCLP | 7440-41-7  | E444/VA    | 0.025  | mg/L | <0.025                      | <0.025            | ----              | ---- | ---- | ---- |
| Boron, TCLP     | 7440-42-8  | E444/VA    | 0.50   | mg/L | 1.27                        | 1.34              | ----              | ---- | ---- | ---- |
| Cadmium, TCLP   | 7440-43-9  | E444/VA    | 0.050  | mg/L | <0.050                      | <0.050            | ----              | ---- | ---- | ---- |
| Calcium, TCLP   | 7440-70-2  | E444/VA    | 10     | mg/L | 2040                        | 2030              | ----              | ---- | ---- | ---- |
| Chromium, TCLP  | 7440-47-3  | E444/VA    | 0.25   | mg/L | <0.25                       | <0.25             | ----              | ---- | ---- | ---- |
| Cobalt, TCLP    | 7440-48-4  | E444/VA    | 0.050  | mg/L | <0.050                      | <0.050            | ----              | ---- | ---- | ---- |
| Copper, TCLP    | 7440-50-8  | E444/VA    | 0.050  | mg/L | 0.323                       | 0.348             | ----              | ---- | ---- | ---- |
| Iron, TCLP      | 7439-89-6  | E444/VA    | 5.0    | mg/L | <5.0                        | <5.0              | ----              | ---- | ---- | ---- |
| Lead, TCLP      | 7439-92-1  | E444/VA    | 0.25   | mg/L | <0.25                       | <0.25             | ----              | ---- | ---- | ---- |
| Magnesium, TCLP | 7439-95-4  | E444/VA    | 2.5    | mg/L | 66.0                        | 75.6              | ----              | ---- | ---- | ---- |
| Mercury, TCLP   | 7439-97-6  | E512/VA    | 0.0010 | mg/L | <0.0010                     | <0.0010           | ----              | ---- | ---- | ---- |
| Nickel, TCLP    | 7440-02-0  | E444/VA    | 0.25   | mg/L | <0.25                       | <0.25             | ----              | ---- | ---- | ---- |
| Selenium, TCLP  | 7782-49-2  | E444/VA    | 0.10   | mg/L | <0.10                       | <0.10             | ----              | ---- | ---- | ---- |
| Silver, TCLP    | 7440-22-4  | E444/VA    | 0.050  | mg/L | <0.050                      | <0.050            | ----              | ---- | ---- | ---- |
| Thallium, TCLP  | 7440-28-0  | E444/VA    | 1.0    | mg/L | <1.0                        | <1.0              | ----              | ---- | ---- | ---- |
| Uranium, TCLP   | 7440-61-1  | E444/VA    | 0.20   | mg/L | <0.20                       | <0.20             | ----              | ---- | ---- | ---- |
| Vanadium, TCLP  | 7440-62-2  | E444/VA    | 0.15   | mg/L | <0.15                       | <0.15             | ----              | ---- | ---- | ---- |
| Zinc, TCLP      | 7440-66-6  | E444/VA    | 0.50   | mg/L | <0.50                       | <0.50             | ----              | ---- | ---- | ---- |
| Zirconium, TCLP | 7440-67-7  | E444/VA    | 10     | mg/L | <10                         | <10               | ----              | ---- | ---- | ---- |

Please refer to the General Comments section for an explanation of any qualifiers detected.



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## Quality Control Interpretive Report

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**Work Order : VA26B1006**

Client : Veolia Environmental Services Canada  
Contact : Darcie Grace  
Address : 5150 Riverbend Dr.  
Burnaby BC Canada V3N 4V3  
Telephone : ----  
Project : Veolia Weekly Bottom Ash-Suite  
PO : 1000620652  
C-O-C number : ----  
Sampler : ----  
Site : Metro Van Ash Sampling Program  
Quote number : VA25-VIS100-001  
No. of samples received : 12  
No. of samples analysed : 12

Laboratory : ALS Environmental - Vancouver  
Account Manager : Gulraj Dhanaua  
Address : 8081 Lougheed Highway  
Burnaby British Columbia Canada V5A 1W9  
Telephone : +1 604 253 4188  
Date Samples Received : 05-May-2026 12:05  
Issue Date : 12-May-2026 19:23

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**This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.**

**Key**

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.  
CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
DQO: Data Quality Objective.  
LOR: Limit of Reporting (detection limit).  
RPD: Relative Percent Difference.

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***Workorder Comments***

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Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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## Summary of Outliers

### Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- No Laboratory Control Sample (LCS) outliers occur
- No Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur.
- No Test sample Surrogate recovery outliers exist.

### Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

### Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

### Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



## Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix : **Soil/Solid**

| Analyte Group        | Laboratory sample ID | Client/Ref Sample ID | Analyte    | CAS Number | Method | Result          | Limits | Comment                                            |
|----------------------|----------------------|----------------------|------------|------------|--------|-----------------|--------|----------------------------------------------------|
| Duplicate (DUP) RPDs |                      |                      |            |            |        |                 |        |                                                    |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Beryllium  | 7440-41-7  | E440   | 0.21 % DUP-H,J  | 30%    | Low Level DUP DQO exceeded (difference > 2 LOR).   |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Cadmium    | 7440-43-9  | E440   | 31.4 % DUP-H    | 30%    | Duplicate RPD does not meet the DQO for this test. |
| Metals               | VA26B1412--001       | Anonymous            | Calcium    | 7440-70-2  | E440   | 44.8 % DUP-H    | 30%    | Duplicate RPD does not meet the DQO for this test. |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Chromium   | 7440-47-3  | E440   | 65.2 % DUP-H    | 30%    | Duplicate RPD does not meet the DQO for this test. |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Cobalt     | 7440-48-4  | E440   | 87.4 % DUP-H    | 30%    | Duplicate RPD does not meet the DQO for this test. |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Copper     | 7440-50-8  | E440   | 57.9 % DUP-H    | 30%    | Duplicate RPD does not meet the DQO for this test. |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Lead       | 7439-92-1  | E440   | 53.5 % DUP-H    | 40%    | Duplicate RPD does not meet the DQO for this test. |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Nickel     | 7440-02-0  | E440   | 72.9 % DUP-H    | 30%    | Duplicate RPD does not meet the DQO for this test. |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Phosphorus | 7723-14-0  | E440   | 30.1 % DUP-H    | 30%    | Duplicate RPD does not meet the DQO for this test. |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Thallium   | 7440-28-0  | E440   | 0.180 % DUP-H,J | 30%    | Low Level DUP DQO exceeded (difference > 2 LOR).   |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Vanadium   | 7440-62-2  | E440   | 47.0 % DUP-H    | 30%    | Duplicate RPD does not meet the DQO for this test. |
| Metals               | VA26B1006--003       | BA 2618-A-3          | Zinc       | 7440-66-6  | E440   | 82.4 % DUP-H    | 30%    | Duplicate RPD does not meet the DQO for this test. |

## Result Qualifiers

### Qualifier

DUP-H

J

### Description

Duplicate results outside ALS DQO, due to sample heterogeneity.

Duplicate results and limits are expressed in terms of absolute difference.



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and/or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

### Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

| Analyte Group : Analytical Method       | ALS Sample ID | QC Lot  | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|-----------------------------------------|---------------|---------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
| Container                               |               |         |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|                                         |               |         |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| Client sample ID                        |               |         |        |               |                          |               |        |      |               |               |        |      |
| Metals : Mercury in Soil/Solid by CVAAS |               |         |        |               |                          |               |        |      |               |               |        |      |
| LDPE bag                                |               |         |        |               |                          |               |        |      |               |               |        |      |
| BA 2618-A-1                             | 001           | 2581158 | E510   | 04-May-2026   | 11-May-2026              | 28 days       | 7 days | ✔    | 11-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-2                             | 002           | 2581158 | E510   | 04-May-2026   | 11-May-2026              | 28 days       | 7 days | ✔    | 11-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-3                             | 003           | 2581348 | E510   | 04-May-2026   | 12-May-2026              | 28 days       | 7 days | ✔    | 12-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-4                             | 004           | 2581348 | E510   | 04-May-2026   | 12-May-2026              | 28 days       | 7 days | ✔    | 12-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-5                             | 005           | 2581348 | E510   | 04-May-2026   | 12-May-2026              | 28 days       | 7 days | ✔    | 12-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-6                             | 006           | 2581348 | E510   | 04-May-2026   | 12-May-2026              | 28 days       | 7 days | ✔    | 12-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-7                             | 007           | 2581348 | E510   | 04-May-2026   | 12-May-2026              | 28 days       | 7 days | ✔    | 12-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-8                             | 008           | 2581348 | E510   | 04-May-2026   | 12-May-2026              | 28 days       | 7 days | ✔    | 12-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-9                             | 009           | 2581348 | E510   | 04-May-2026   | 12-May-2026              | 28 days       | 7 days | ✔    | 12-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-10                            | 010           | 2581348 | E510   | 04-May-2026   | 12-May-2026              | 28 days       | 7 days | ✔    | 12-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-11                            | 011           | 2581348 | E510   | 04-May-2026   | 12-May-2026              | 28 days       | 7 days | ✔    | 12-May-2026   | 28 days       | 0 days | ✔    |
| BA 2618-A-12                            | 012           | 2581348 | E510   | 04-May-2026   | 12-May-2026              | 28 days       | 7 days | ✔    | 12-May-2026   | 28 days       | 0 days | ✔    |



**Matrix: Soil/Solid**

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

| Analyte Group : Analytical Method               | ALS Sample ID | QC Lot  | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|-------------------------------------------------|---------------|---------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
| Container                                       |               |         |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
| Client sample ID                                |               |         |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| Metals : Metals in Soil/Solid by CRC ICPMS      |               |         |        |               |                          |               |        |      |               |               |        |      |
| LDPE bag                                        |               |         |        |               |                          |               |        |      |               |               |        |      |
| BA 2618-A-1                                     | 001           | 2581159 | E440   | 04-May-2026   | 11-May-2026              | 180 days      | 7 days | ✓    | 12-May-2026   | 180 days      | 7 days | ✓    |
| BA 2618-A-2                                     | 002           | 2581159 | E440   | 04-May-2026   | 11-May-2026              | 180 days      | 7 days | ✓    | 12-May-2026   | 180 days      | 7 days | ✓    |
| BA 2618-A-3                                     | 003           | 2581347 | E440   | 04-May-2026   | 12-May-2026              | 180 days      | 7 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-4                                     | 004           | 2581347 | E440   | 04-May-2026   | 12-May-2026              | 180 days      | 7 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-5                                     | 005           | 2581347 | E440   | 04-May-2026   | 12-May-2026              | 180 days      | 7 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-6                                     | 006           | 2581347 | E440   | 04-May-2026   | 12-May-2026              | 180 days      | 7 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-7                                     | 007           | 2581347 | E440   | 04-May-2026   | 12-May-2026              | 180 days      | 7 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-8                                     | 008           | 2581347 | E440   | 04-May-2026   | 12-May-2026              | 180 days      | 7 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-9                                     | 009           | 2581347 | E440   | 04-May-2026   | 12-May-2026              | 180 days      | 7 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-10                                    | 010           | 2581347 | E440   | 04-May-2026   | 12-May-2026              | 180 days      | 7 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-11                                    | 011           | 2581347 | E440   | 04-May-2026   | 12-May-2026              | 180 days      | 7 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-12                                    | 012           | 2581347 | E440   | 04-May-2026   | 12-May-2026              | 180 days      | 7 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| Physical Tests : Moisture Content by Gravimetry |               |         |        |               |                          |               |        |      |               |               |        |      |
| LDPE bag                                        |               |         |        |               |                          |               |        |      |               |               |        |      |
| BA 2618-A-1                                     | 001           | 2581175 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| BA 2618-A-2                                     | 002           | 2581175 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| BA 2618-A-3                                     | 003           | 2581350 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| BA 2618-A-4                                     | 004           | 2581350 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |



**Matrix: Soil/Solid**

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

| Analyte Group : Analytical Method                        |               | QC Lot  | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|----------------------------------------------------------|---------------|---------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
| Container                                                |               |         |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|                                                          |               |         |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| Client sample ID                                         | ALS Sample ID | QC Lot  | Method | Sampling Date | Preparation Date         | Rec           | Actual | Eval | Analysis Date | Rec           | Actual | Eval |
| Physical Tests : Moisture Content by Gravimetry          |               |         |        |               |                          |               |        |      |               |               |        |      |
| LDPE bag                                                 |               |         |        |               |                          |               |        |      |               |               |        |      |
| BA 2618-A-5                                              | 005           | 2581350 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| BA 2618-A-6                                              | 006           | 2581350 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| BA 2618-A-7                                              | 007           | 2581350 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| BA 2618-A-8                                              | 008           | 2581350 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| BA 2618-A-9                                              | 009           | 2581350 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| BA 2618-A-10                                             | 010           | 2581350 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| BA 2618-A-11                                             | 011           | 2581350 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| BA 2618-A-12                                             | 012           | 2581350 | E144   | 04-May-2026   | ----                     | ----          | ----   |      | 09-May-2026   | ----          | ----   |      |
| Physical Tests : pH by Meter (1:2 Soil:Water Extraction) |               |         |        |               |                          |               |        |      |               |               |        |      |
| LDPE bag                                                 |               |         |        |               |                          |               |        |      |               |               |        |      |
| BA 2618-A-1                                              | 001           | 2581160 | E108   | 04-May-2026   | 11-May-2026              | 30 days       | 7 days | ✓    | 11-May-2026   | 30 days       | 7 days | ✓    |
| BA 2618-A-2                                              | 002           | 2581160 | E108   | 04-May-2026   | 11-May-2026              | 30 days       | 7 days | ✓    | 11-May-2026   | 30 days       | 7 days | ✓    |
| BA 2618-A-3                                              | 003           | 2581349 | E108   | 04-May-2026   | 12-May-2026              | 30 days       | 7 days | ✓    | 12-May-2026   | 30 days       | 7 days | ✓    |
| BA 2618-A-4                                              | 004           | 2581349 | E108   | 04-May-2026   | 12-May-2026              | 30 days       | 7 days | ✓    | 12-May-2026   | 30 days       | 7 days | ✓    |
| BA 2618-A-5                                              | 005           | 2581349 | E108   | 04-May-2026   | 12-May-2026              | 30 days       | 7 days | ✓    | 12-May-2026   | 30 days       | 7 days | ✓    |
| BA 2618-A-6                                              | 006           | 2581349 | E108   | 04-May-2026   | 12-May-2026              | 30 days       | 7 days | ✓    | 12-May-2026   | 30 days       | 7 days | ✓    |
| BA 2618-A-7                                              | 007           | 2581349 | E108   | 04-May-2026   | 12-May-2026              | 30 days       | 7 days | ✓    | 12-May-2026   | 30 days       | 7 days | ✓    |
| BA 2618-A-8                                              | 008           | 2581349 | E108   | 04-May-2026   | 12-May-2026              | 30 days       | 7 days | ✓    | 12-May-2026   | 30 days       | 7 days | ✓    |
| BA 2618-A-9                                              | 009           | 2581349 | E108   | 04-May-2026   | 12-May-2026              | 30 days       | 7 days | ✓    | 12-May-2026   | 30 days       | 7 days | ✓    |



**Matrix: Soil/Solid**

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

| Analyte Group : Analytical Method                        |     | ALS Sample ID | QC Lot | Method      | Sampling Date | Extraction / Preparation |               |        | Analysis    |               |               |        |      |
|----------------------------------------------------------|-----|---------------|--------|-------------|---------------|--------------------------|---------------|--------|-------------|---------------|---------------|--------|------|
| Container                                                |     |               |        |             |               | Preparation Date         | Holding Times |        | Eval        | Analysis Date | Holding Times |        | Eval |
| Client sample ID                                         |     |               |        |             |               |                          | Rec           | Actual |             |               | Rec           | Actual |      |
| Physical Tests : pH by Meter (1:2 Soil:Water Extraction) |     |               |        |             |               |                          |               |        |             |               |               |        |      |
| LDPE bag                                                 |     |               |        |             |               |                          |               |        |             |               |               |        |      |
| BA 2618-A-10                                             | 010 | 2581349       | E108   | 04-May-2026 | 12-May-2026   | 30 days                  | 7 days        | ✓      | 12-May-2026 | 30 days       | 7 days        | ✓      |      |
| BA 2618-A-11                                             | 011 | 2581349       | E108   | 04-May-2026 | 12-May-2026   | 30 days                  | 7 days        | ✓      | 12-May-2026 | 30 days       | 7 days        | ✓      |      |
| BA 2618-A-12                                             | 012 | 2581349       | E108   | 04-May-2026 | 12-May-2026   | 30 days                  | 7 days        | ✓      | 12-May-2026 | 30 days       | 7 days        | ✓      |      |
| TCLP Metals : Mercury by CVAAS (TCLP)                    |     |               |        |             |               |                          |               |        |             |               |               |        |      |
| Glass vial - total (lab preserved)                       |     |               |        |             |               |                          |               |        |             |               |               |        |      |
| BA 2618-A-1                                              | 001 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-2                                              | 002 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-3                                              | 003 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-4                                              | 004 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-5                                              | 005 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-6                                              | 006 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-7                                              | 007 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-8                                              | 008 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-9                                              | 009 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-10                                             | 010 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-11                                             | 011 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |
| BA 2618-A-12                                             | 012 | 2585366       | E512   | 04-May-2026 | 12-May-2026   | 28 days                  | 8 days        | ✓      | 12-May-2026 | 28 days       | 8 days        | ✓      |      |



**Matrix: Soil/Solid**

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

| Analyte Group : Analytical Method                                       |     |         |        |             | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|-------------------------------------------------------------------------|-----|---------|--------|-------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
| Container                                                               |     |         |        |             | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
| Client sample ID                                                        |     |         |        |             |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| TCLP Metals : Metals by CRC ICPMS (TCLP)                                |     |         |        |             |                          |               |        |      |               |               |        |      |
| HDPE - total (lab preserved)                                            |     |         |        |             |                          |               |        |      |               |               |        |      |
| BA 2618-A-1                                                             | 001 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-2                                                             | 002 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-3                                                             | 003 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-4                                                             | 004 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-5                                                             | 005 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-6                                                             | 006 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-7                                                             | 007 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-8                                                             | 008 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-9                                                             | 009 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-10                                                            | 010 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-11                                                            | 011 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| BA 2618-A-12                                                            | 012 | 2585367 | E444   | 04-May-2026 | 12-May-2026              | 180 days      | 8 days | ✓    | 13-May-2026   | 180 days      | 8 days | ✓    |
| TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs) |     |         |        |             |                          |               |        |      |               |               |        |      |
| Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)         |     |         |        |             |                          |               |        |      |               |               |        |      |
| BA 2618-A-1                                                             | 001 |         | EPP444 | 04-May-2026 | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✓    |
| BA 2618-A-2                                                             | 002 |         | EPP444 | 04-May-2026 | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✓    |
| BA 2618-A-3                                                             | 003 |         | EPP444 | 04-May-2026 | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✓    |
| BA 2618-A-4                                                             | 004 |         | EPP444 | 04-May-2026 | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✓    |



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

| Analyte Group : Analytical Method                                       | ALS Sample ID | QC Lot | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|-------------------------------------------------------------------------|---------------|--------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
| Container                                                               |               |        |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|                                                                         |               |        |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| Client sample ID                                                        | ALS Sample ID | QC Lot | Method | Sampling Date | Preparation Date         | Rec           | Actual | Eval | Analysis Date | Rec           | Actual | Eval |
| TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs) |               |        |        |               |                          |               |        |      |               |               |        |      |
| Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)         |               |        |        |               |                          |               |        |      |               |               |        |      |
| BA 2618-A-5                                                             | 005           |        | EPP444 | 04-May-2026   | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✔    |
| BA 2618-A-6                                                             | 006           |        | EPP444 | 04-May-2026   | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✔    |
| BA 2618-A-7                                                             | 007           |        | EPP444 | 04-May-2026   | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✔    |
| BA 2618-A-8                                                             | 008           |        | EPP444 | 04-May-2026   | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✔    |
| BA 2618-A-9                                                             | 009           |        | EPP444 | 04-May-2026   | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✔    |
| BA 2618-A-10                                                            | 010           |        | EPP444 | 04-May-2026   | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✔    |
| BA 2618-A-11                                                            | 011           |        | EPP444 | 04-May-2026   | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✔    |
| BA 2618-A-12                                                            | 012           |        | EPP444 | 04-May-2026   | ----                     | ----          | ----   |      | 08-May-2026   | 28 days       | 4 days | ✔    |

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

### Matrix: Soil/Solid

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification

| Quality Control Sample Type             |              |          | Count |         | Frequency (%) |          |            |
|-----------------------------------------|--------------|----------|-------|---------|---------------|----------|------------|
| Analytical Methods                      | Method / Lab | QC Lot # | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Laboratory Duplicates (DUP)</b>      |              |          |       |         |               |          |            |
| pH by Meter (1:2 Soil:Water Extraction) | E108 / VA    | 2581160  | 2     | 31      | 6.5           | 5.0      | ✔          |
| Moisture Content by Gravimetry          | E144 / VA    | 2581175  | 2     | 21      | 9.5           | 5.0      | ✔          |
| Metals in Soil/Solid by CRC ICPMS       | E440 / VA    | 2581159  | 2     | 31      | 6.5           | 5.0      | ✔          |
| Metals by CRC ICPMS (TCLP)              | E444 / VA    | 2585367  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Mercury in Soil/Solid by CVAAS          | E510 / VA    | 2581158  | 2     | 31      | 6.5           | 5.0      | ✔          |
| Mercury by CVAAS (TCLP)                 | E512 / VA    | 2585366  | 1     | 12      | 8.3           | 5.0      | ✔          |
| <b>Laboratory Control Samples (LCS)</b> |              |          |       |         |               |          |            |
| pH by Meter (1:2 Soil:Water Extraction) | E108 / VA    | 2581160  | 2     | 31      | 6.5           | 5.0      | ✔          |
| Moisture Content by Gravimetry          | E144 / VA    | 2581175  | 2     | 21      | 9.5           | 5.0      | ✔          |
| Metals in Soil/Solid by CRC ICPMS       | E440 / VA    | 2581159  | 4     | 31      | 12.9          | 10.0     | ✔          |
| Mercury in Soil/Solid by CVAAS          | E510 / VA    | 2581158  | 4     | 31      | 12.9          | 10.0     | ✔          |
| <b>Method Blanks (MB)</b>               |              |          |       |         |               |          |            |
| Moisture Content by Gravimetry          | E144 / VA    | 2581175  | 2     | 21      | 9.5           | 5.0      | ✔          |
| Metals in Soil/Solid by CRC ICPMS       | E440 / VA    | 2581159  | 2     | 31      | 6.5           | 5.0      | ✔          |
| Metals by CRC ICPMS (TCLP)              | E444 / VA    | 2585367  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Mercury in Soil/Solid by CVAAS          | E510 / VA    | 2581158  | 2     | 31      | 6.5           | 5.0      | ✔          |
| Mercury by CVAAS (TCLP)                 | E512 / VA    | 2585366  | 1     | 12      | 8.3           | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>               |              |          |       |         |               |          |            |
| Metals by CRC ICPMS (TCLP)              | E444 / VA    | 2585367  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Mercury by CVAAS (TCLP)                 | E512 / VA    | 2585366  | 1     | 12      | 8.3           | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods                      | Method / Lab                           | Matrix     | Method Reference                        | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|----------------------------------------|------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mercury by CVAAS (TCLP)                 | E512<br>ALS Environmental - Vancouver  | Soil/Solid | EPA 1311/245.1 (mod)                    | An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by CVAAS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mercury in Soil/Solid by CVAAS          | E510<br>ALS Environmental - Vancouver  | Soil/Solid | EPA 200.2/1631 Appendix (mod)           | Samples are dried, then sieved through a 2 mm sieve, and digested with HNO <sub>3</sub> and HCl, followed by CVAAS analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Metals by CRC ICPMS (TCLP)              | E444<br>ALS Environmental - Vancouver  | Soil/Solid | EPA 1311/6020B (mod)                    | An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by Collision/Reaction Cell ICPMS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Metals in Soil/Solid by CRC ICPMS       | E440<br>ALS Environmental - Vancouver  | Soil/Solid | EPA 6020B (mod)                         | This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO <sub>3</sub> and HCl.<br><br>Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines.<br><br>Analysis is by Collision/Reaction Cell ICPMS. |
| Moisture Content by Gravimetry          | E144<br>ALS Environmental - Vancouver  | Soil/Solid | CCME PHC in Soil - Tier 1               | Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| pH by Meter (1:2 Soil:Water Extraction) | E108<br>ALS Environmental - Vancouver  | Soil/Solid | BC Lab Manual                           | pH is determined by potentiometric measurement with a pH electrode at ambient laboratory temperature (normally 20 ± 5°C), and is carried out in accordance with procedures described in the BC Lab Manual (prescriptive method). The procedure involves mixing the dried (at <60 °C) and sieved (10mesh/2mm) sample with ultra pure water at a 1:2 ratio of sediment to water. The pH is then measured by a standard pH probe.                                                                                                                                                                                                                                                           |
| Preparation Methods                     | Method / Lab                           | Matrix     | Method Reference                        | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| BrCl Digestion for Total Mercury (TCLP) | EP512<br>ALS Environmental - Vancouver | Soil/Solid | EPA 1631E (mod)                         | An extract from a soil/solid waste leachate is digested with BrCl.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Digestion for Metals and Mercury        | EP440<br>ALS Environmental - Vancouver | Soil/Solid | EPA 200.2 (mod)                         | Samples are dried, then sieved through a 2 mm sieve, and digested with HNO <sub>3</sub> and HCl. This method is intended to liberate metals that may be environmentally available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Leach 1:2 Soil:Water for pH/EC          | EP108<br>ALS Environmental - Vancouver | Soil/Solid | BC WLAP METHOD: PH, ELECTROMETRIC, SOIL | The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Metals Digestion (TCLP)                 | EP444<br>ALS Environmental - Vancouver | Soil/Solid | EPA 200.2 (mod)                         | An extract from the TCLP is digested with HNO <sub>3</sub> and HCl to liberate "total recoverable" metals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



|                                                           |                                            |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------|--------------------------------------------|------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLP Leachate Preparation (Metals, Inorganics, and SVOCs) | EPP444<br>ALS Environmental -<br>Vancouver | Soil/Solid | EPA 1311 | Preparation of a Toxicity Characteristic Leaching Procedure (TCLP) solid sample involves particle size reduction, homogenization, then determination of appropriate extraction fluid. A measured portion of fresh subsample is placed in an extraction bottle with the appropriate extraction fluid then tumbled in a rotary extractor for 18+/- 2 hours at 23 +/- 2 C. The liquid leachate is filtered to separate from solids then bottled and prepared for analytical tests. |
|-----------------------------------------------------------|--------------------------------------------|------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## QUALITY CONTROL REPORT

**Work Order : VA26B1006**

Client : Veolia Environmental Services Canada  
Contact : Darcie Grace  
Address : 5150 Riverbend Dr.  
Burnaby BC Canada V3N 4V3  
Telephone : ----  
Project : Veolia Weekly Bottom Ash-Suite  
PO : 1000620652  
C-O-C number : ----  
Sampler : ----  
Site : Metro Van Ash Sampling Program  
Quote number : VA25-VISI100-001  
No. of samples received : 12  
No. of samples analysed : 12

Laboratory : ALS Environmental - Vancouver  
Account Manager : Gulraj Dhanaa  
Address : 8081 Lougheed Highway  
Burnaby British Columbia Canada V5A 1W9  
Telephone : +1 604 253 4188  
Date Samples Received : 05-May-2026 12:05  
Date Analysis Commenced : 08-May-2026  
Issue Date : 12-May-2026 19:23

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

**Signatories**

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories   | Position                                | Laboratory Department                         |
|---------------|-----------------------------------------|-----------------------------------------------|
| Kevin Duarte  | Supervisor - Metals ICP Instrumentation | Vancouver Metals, Burnaby, British Columbia   |
| Robert Nguyen | Analyst                                 | Vancouver Metals, Burnaby, British Columbia   |
| Robin Weeks   | Supervisor - Organics Extractions       | Vancouver Organics, Burnaby, British Columbia |



### **General Comments**

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key:

- Anonymous=Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number=Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO=Data Quality Objective.
- LOR=Limit of Reporting (detection limit).
- RPD=Relative Percent Difference
- # =Indicates a QC result that did not meet the ALS DQO.

### **Workorder Comments**

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



## Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test specific).

### Sub-Matrix: Soil

### Laboratory Duplicate (DUP) Report

| Laboratory sample ID                   | Client sample ID | Analyte             | CAS Number | Method | LOR    | Unit     | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
|----------------------------------------|------------------|---------------------|------------|--------|--------|----------|-----------------|------------------|----------------------|------------------|-----------|
| <b>Physical Tests(QC Lot: 2581160)</b> |                  |                     |            |        |        |          |                 |                  |                      |                  |           |
| VA26B1412-001                          | Anonymous        | pH (1:2 soil:water) | ----       | E108   | 0.10   | pH units | 7.95            | 8.03             | 1.0 %                | 5%               | ---       |
| <b>Physical Tests(QC Lot: 2581175)</b> |                  |                     |            |        |        |          |                 |                  |                      |                  |           |
| VA26B0905-001                          | Anonymous        | Moisture            | ----       | E144   | 0.25   | %        | 11.3            | 10.3             | 9.34 %               | 20%              | ---       |
| <b>Physical Tests(QC Lot: 2581349)</b> |                  |                     |            |        |        |          |                 |                  |                      |                  |           |
| VA26B1006-003                          | BA 2618-A-3      | pH (1:2 soil:water) | ----       | E108   | 0.10   | pH units | 12.44           | 12.45            | 0.1 %                | 5%               | ---       |
| <b>Physical Tests(QC Lot: 2581350)</b> |                  |                     |            |        |        |          |                 |                  |                      |                  |           |
| VA26B1006-003                          | BA 2618-A-3      | Moisture            | ----       | E144   | 0.25   | %        | 22.2            | 22.8             | 2.71 %               | 20%              | ---       |
| <b>Metals(QC Lot: 2581158)</b>         |                  |                     |            |        |        |          |                 |                  |                      |                  |           |
| VA26B1412-001                          | Anonymous        | Mercury             | 7439-97-6  | E510   | 0.0500 | mg/kg    | <0.0500         | <0.0500          | 0                    | Diff <2x LOR     | ---       |
| <b>Metals(QC Lot: 2581159)</b>         |                  |                     |            |        |        |          |                 |                  |                      |                  |           |
| VA26B1412-001                          | Anonymous        | Aluminum            | 7429-90-5  | E440   | 50     | mg/kg    | 17900           | 16600            | 7.68 %               | 40%              | ---       |
|                                        |                  | Antimony            | 7440-36-0  | E440   | 0.10   | mg/kg    | 0.13            | 0.16             | 0.02                 | Diff <2x LOR     | ---       |
|                                        |                  | Arsenic             | 7440-38-2  | E440   | 0.10   | mg/kg    | 0.78            | 0.94             | 19.2 %               | 30%              | ---       |
|                                        |                  | Barium              | 7440-39-3  | E440   | 0.50   | mg/kg    | 643             | 607              | 5.75 %               | 40%              | ---       |
|                                        |                  | Beryllium           | 7440-41-7  | E440   | 0.10   | mg/kg    | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ---       |
|                                        |                  | Bismuth             | 7440-69-9  | E440   | 0.20   | mg/kg    | <0.20           | <0.20            | 0                    | Diff <2x LOR     | ---       |
|                                        |                  | Boron               | 7440-42-8  | E440   | 5.0    | mg/kg    | <5.0            | <5.0             | 0                    | Diff <2x LOR     | ---       |
|                                        |                  | Cadmium             | 7440-43-9  | E440   | 0.020  | mg/kg    | 0.315           | 0.288            | 9.01 %               | 30%              | ---       |
|                                        |                  | Calcium             | 7440-70-2  | E440   | 50     | mg/kg    | 16900           | 10700            | 44.8 %               | 30%              | DUP-H     |
|                                        |                  | Chromium            | 7440-47-3  | E440   | 0.50   | mg/kg    | 42.3            | 40.0             | 5.66 %               | 30%              | ---       |
|                                        |                  | Cobalt              | 7440-48-4  | E440   | 0.10   | mg/kg    | 14.1            | 15.2             | 7.75 %               | 30%              | ---       |
|                                        |                  | Copper              | 7440-50-8  | E440   | 0.50   | mg/kg    | 64.3            | 73.6             | 13.6 %               | 30%              | ---       |
|                                        |                  | Iron                | 7439-89-6  | E440   | 50     | mg/kg    | 34300           | 33500            | 2.28 %               | 30%              | ---       |
|                                        |                  | Lead                | 7439-92-1  | E440   | 0.50   | mg/kg    | 3.46            | 3.76             | 8.31 %               | 40%              | ---       |
|                                        |                  | Lithium             | 7439-93-2  | E440   | 2.0    | mg/kg    | 16.2            | 14.8             | 9.19 %               | 30%              | ---       |
|                                        |                  | Magnesium           | 7439-95-4  | E440   | 20     | mg/kg    | 11800           | 11200            | 5.91 %               | 30%              | ---       |
|                                        |                  | Manganese           | 7439-96-5  | E440   | 1.0    | mg/kg    | 599             | 505              | 17.0 %               | 30%              | ---       |
|                                        |                  | Molybdenum          | 7439-98-7  | E440   | 0.10   | mg/kg    | 1.32            | 1.56             | 16.4 %               | 40%              | ---       |
|                                        |                  | Nickel              | 7440-02-0  | E440   | 0.50   | mg/kg    | 26.3            | 29.0             | 9.99 %               | 30%              | ---       |
|                                        |                  | Phosphorus          | 7723-14-0  | E440   | 50     | mg/kg    | 1160            | 1170             | 1.17 %               | 30%              | ---       |
|                                        |                  | Potassium           | 7440-09-7  | E440   | 100    | mg/kg    | 11300           | 10700            | 4.99 %               | 40%              | ---       |
|                                        |                  | Selenium            | 7782-49-2  | E440   | 0.20   | mg/kg    | 1.88            | 1.49             | 23.3 %               | 30%              | ---       |
|                                        |                  | Silver              | 7440-22-4  | E440   | 0.10   | mg/kg    | 0.16            | 0.16             | 0.004                | Diff <2x LOR     | ---       |
|                                        |                  | Sodium              | 7440-23-5  | E440   | 50     | mg/kg    | 234             | 216              | 18                   | Diff <2x LOR     | ---       |



**Sub-Matrix: Soil**

**Laboratory Duplicate (DUP) Report**

| Laboratory sample ID           | Client sample ID | Analyte    | CAS Number | Method | LOR   | Unit  | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
|--------------------------------|------------------|------------|------------|--------|-------|-------|-----------------|------------------|----------------------|------------------|-----------|
| <b>Metals(QC Lot: 2581159)</b> |                  |            |            |        |       |       |                 |                  |                      |                  |           |
|                                |                  | Strontium  | 7440-24-6  | E440   | 0.50  | mg/kg | 39.2            | 33.2             | 16.7 %               | 40%              | ---       |
|                                |                  | Sulfur     | 7704-34-9  | E440   | 1000  | mg/kg | 3200            | 1400             | 1800                 | Diff <2x LOR     | ---       |
|                                |                  | Thallium   | 7440-28-0  | E440   | 0.050 | mg/kg | 0.269           | 0.239            | 0.030                | Diff <2x LOR     | ---       |
|                                |                  | Tin        | 7440-31-5  | E440   | 2.0   | mg/kg | <2.0            | <2.0             | 0                    | Diff <2x LOR     | ---       |
|                                |                  | Titanium   | 7440-32-6  | E440   | 1.0   | mg/kg | 1940            | 1880             | 3.24 %               | 40%              | ---       |
|                                |                  | Tungsten   | 7440-33-7  | E440   | 0.50  | mg/kg | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |
|                                |                  | Uranium    | 7440-61-1  | E440   | 0.050 | mg/kg | 0.588           | 0.615            | 4.62 %               | 30%              | ---       |
|                                |                  | Vanadium   | 7440-62-2  | E440   | 0.20  | mg/kg | 103             | 99.8             | 2.89 %               | 30%              | ---       |
|                                |                  | Zinc       | 7440-66-6  | E440   | 2.0   | mg/kg | 71.6            | 71.2             | 0.539 %              | 30%              | ---       |
|                                |                  | Zirconium  | 7440-67-7  | E440   | 1.0   | mg/kg | <1.0            | <1.0             | 0                    | Diff <2x LOR     | ---       |
| <b>Metals(QC Lot: 2581347)</b> |                  |            |            |        |       |       |                 |                  |                      |                  |           |
| VA26B1006-003                  | BA 2618-A-3      | Aluminum   | 7429-90-5  | E440   | 50    | mg/kg | 43300           | 39400            | 9.48 %               | 40%              | ---       |
|                                |                  | Antimony   | 7440-36-0  | E440   | 0.10  | mg/kg | 199             | 168              | 16.7 %               | 30%              | ---       |
|                                |                  | Arsenic    | 7440-38-2  | E440   | 0.10  | mg/kg | 31.5            | 25.6             | 20.4 %               | 30%              | ---       |
|                                |                  | Barium     | 7440-39-3  | E440   | 0.50  | mg/kg | 731             | 629              | 15.0 %               | 40%              | ---       |
|                                |                  | Beryllium  | 7440-41-7  | E440   | 0.10  | mg/kg | 0.64            | # 0.43           | 0.21                 | Diff <2x LOR     | DUP-H,J   |
|                                |                  | Bismuth    | 7440-69-9  | E440   | 0.20  | mg/kg | 12.2            | 11.0             | 10.7 %               | 30%              | ---       |
|                                |                  | Boron      | 7440-42-8  | E440   | 5.0   | mg/kg | 217             | 192              | 12.5 %               | 30%              | ---       |
|                                |                  | Cadmium    | 7440-43-9  | E440   | 0.020 | mg/kg | 16.6            | 12.1             | 31.4 %               | 30%              | DUP-H     |
|                                |                  | Calcium    | 7440-70-2  | E440   | 50    | mg/kg | 179000          | 171000           | 4.37 %               | 30%              | ---       |
|                                |                  | Chromium   | 7440-47-3  | E440   | 0.50  | mg/kg | 411             | 209              | 65.2 %               | 30%              | DUP-H     |
|                                |                  | Cobalt     | 7440-48-4  | E440   | 0.10  | mg/kg | 69.4            | 177              | 87.4 %               | 30%              | DUP-H     |
|                                |                  | Copper     | 7440-50-8  | E440   | 0.50  | mg/kg | 3060            | 1690             | 57.9 %               | 30%              | DUP-H     |
|                                |                  | Iron       | 7439-89-6  | E440   | 50    | mg/kg | 62900           | 60700            | 3.55 %               | 30%              | ---       |
|                                |                  | Lead       | 7439-92-1  | E440   | 0.50  | mg/kg | 617             | 1070             | 53.5 %               | 40%              | DUP-H     |
|                                |                  | Lithium    | 7439-93-2  | E440   | 2.0   | mg/kg | 34.4            | 36.0             | 4.54 %               | 30%              | ---       |
|                                |                  | Magnesium  | 7439-95-4  | E440   | 20    | mg/kg | 14700           | 12900            | 12.9 %               | 30%              | ---       |
|                                |                  | Manganese  | 7439-96-5  | E440   | 1.0   | mg/kg | 865             | 1050             | 19.4 %               | 30%              | ---       |
|                                |                  | Molybdenum | 7439-98-7  | E440   | 0.10  | mg/kg | 26.5            | 25.8             | 2.67 %               | 40%              | ---       |
|                                |                  | Nickel     | 7440-02-0  | E440   | 0.50  | mg/kg | 471             | 219              | 72.9 %               | 30%              | DUP-H     |
|                                |                  | Phosphorus | 7723-14-0  | E440   | 50    | mg/kg | 10500           | 7720             | 30.1 %               | 30%              | DUP-H     |
|                                |                  | Potassium  | 7440-09-7  | E440   | 100   | mg/kg | 8420            | 7020             | 18.1 %               | 40%              | ---       |
|                                |                  | Selenium   | 7782-49-2  | E440   | 0.20  | mg/kg | 0.73            | 0.54             | 0.20                 | Diff <2x LOR     | ---       |
|                                |                  | Silver     | 7440-22-4  | E440   | 0.10  | mg/kg | 7.74            | 6.37             | 19.3 %               | 40%              | ---       |
|                                |                  | Sodium     | 7440-23-5  | E440   | 50    | mg/kg | 20700           | 17100            | 18.8 %               | 40%              | ---       |
|                                |                  | Strontium  | 7440-24-6  | E440   | 0.50  | mg/kg | 386             | 363              | 5.92 %               | 40%              | ---       |



**Sub-Matrix: Soil**

**Laboratory Duplicate (DUP) Report**

| Laboratory sample ID                | Client sample ID | Analyte         | CAS Number | Method | LOR    | Unit  | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
|-------------------------------------|------------------|-----------------|------------|--------|--------|-------|-----------------|------------------|----------------------|------------------|-----------|
| <b>Metals(QC Lot: 2581347)</b>      |                  |                 |            |        |        |       |                 |                  |                      |                  |           |
|                                     |                  | Sulfur          | 7704-34-9  | E440   | 1000   | mg/kg | 13600           | 11300            | 18.3 %               | 30%              | ---       |
|                                     |                  | Thallium        | 7440-28-0  | E440   | 0.050  | mg/kg | <0.050          | # 0.230          | 0.180                | Diff <2x LOR     | DUP-H,J   |
|                                     |                  | Tin             | 7440-31-5  | E440   | 2.0    | mg/kg | 158             | 187              | 17.2 %               | 40%              | ---       |
|                                     |                  | Titanium        | 7440-32-6  | E440   | 1.0    | mg/kg | 519             | 426              | 19.7 %               | 40%              | ---       |
|                                     |                  | Tungsten        | 7440-33-7  | E440   | 0.50   | mg/kg | 86.3            | 94.2             | 8.75 %               | 30%              | ---       |
|                                     |                  | Uranium         | 7440-61-1  | E440   | 0.050  | mg/kg | 1.77            | 1.94             | 9.12 %               | 30%              | ---       |
|                                     |                  | Vanadium        | 7440-62-2  | E440   | 0.20   | mg/kg | 57.7            | 35.7             | 47.0 %               | 30%              | DUP-H     |
|                                     |                  | Zinc            | 7440-66-6  | E440   | 2.0    | mg/kg | 4410            | 10600            | 82.4 %               | 30%              | DUP-H     |
|                                     |                  | Zirconium       | 7440-67-7  | E440   | 1.0    | mg/kg | 1.4             | 1.8              | 0.4                  | Diff <2x LOR     | ---       |
| <b>Metals(QC Lot: 2581348)</b>      |                  |                 |            |        |        |       |                 |                  |                      |                  |           |
| VA26B1006-003                       | BA 2618-A-3      | Mercury         | 7439-97-6  | E510   | 0.0500 | mg/kg | <0.0500         | 0.0545           | 0.0045               | Diff <2x LOR     | ---       |
| <b>TCLP Metals(QC Lot: 2585366)</b> |                  |                 |            |        |        |       |                 |                  |                      |                  |           |
| VA26B1006-001                       | BA 2618-A-1      | Mercury, TCLP   | 7439-97-6  | E512   | 0.0010 | mg/L  | <0.0010         | <0.0010          | 0                    | Diff <2x LOR     | ---       |
| <b>TCLP Metals(QC Lot: 2585367)</b> |                  |                 |            |        |        |       |                 |                  |                      |                  |           |
| VA26B1006-001                       | BA 2618-A-1      | Antimony, TCLP  | 7440-36-0  | E444   | 1.00   | mg/L  | <1.00           | <1.00            | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Arsenic, TCLP   | 7440-38-2  | E444   | 1.0    | mg/L  | <1.0            | <1.0             | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Barium, TCLP    | 7440-39-3  | E444   | 2.5    | mg/L  | <2.5            | <2.5             | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Beryllium, TCLP | 7440-41-7  | E444   | 0.025  | mg/L  | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Boron, TCLP     | 7440-42-8  | E444   | 0.50   | mg/L  | 1.22            | 1.23             | 0.005                | Diff <2x LOR     | ---       |
|                                     |                  | Cadmium, TCLP   | 7440-43-9  | E444   | 0.050  | mg/L  | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Calcium, TCLP   | 7440-70-2  | E444   | 10     | mg/L  | 2000            | 2130             | 6.22 %               | 30%              | ---       |
|                                     |                  | Chromium, TCLP  | 7440-47-3  | E444   | 0.25   | mg/L  | <0.25           | <0.25            | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Cobalt, TCLP    | 7440-48-4  | E444   | 0.050  | mg/L  | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Copper, TCLP    | 7440-50-8  | E444   | 0.050  | mg/L  | 0.327           | 0.349            | 6.60 %               | 30%              | ---       |
|                                     |                  | Iron, TCLP      | 7439-89-6  | E444   | 5.0    | mg/L  | <5.0            | <5.0             | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Lead, TCLP      | 7439-92-1  | E444   | 0.25   | mg/L  | <0.25           | <0.25            | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Magnesium, TCLP | 7439-95-4  | E444   | 2.5    | mg/L  | 60.8            | 65.4             | 7.22 %               | 30%              | ---       |
|                                     |                  | Nickel, TCLP    | 7440-02-0  | E444   | 0.25   | mg/L  | <0.25           | <0.25            | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Selenium, TCLP  | 7782-49-2  | E444   | 0.10   | mg/L  | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Silver, TCLP    | 7440-22-4  | E444   | 0.050  | mg/L  | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Thallium, TCLP  | 7440-28-0  | E444   | 1.0    | mg/L  | <1.0            | <1.0             | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Uranium, TCLP   | 7440-61-1  | E444   | 0.20   | mg/L  | <0.20           | <0.20            | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Vanadium, TCLP  | 7440-62-2  | E444   | 0.15   | mg/L  | <0.15           | <0.15            | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Zinc, TCLP      | 7440-66-6  | E444   | 0.50   | mg/L  | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |
|                                     |                  | Zirconium, TCLP | 7440-67-7  | E444   | 10     | mg/L  | <10             | <10              | 0                    | Diff <2x LOR     | ---       |



### Qualifiers

| Qualifier | Description                                                                 |
|-----------|-----------------------------------------------------------------------------|
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity.             |
| J         | Duplicate results and limits are expressed in terms of absolute difference. |

### Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

#### Sub-Matrix: Soil/Solid

| Analyte                         | CAS Number | Method | LOR   | Unit     | Result  | Qualifier |
|---------------------------------|------------|--------|-------|----------|---------|-----------|
| Physical Tests(QC Lot: 2581160) |            |        |       |          |         |           |
| pH (1:2 soil:water)             | ----       | E108   | ----  | pH units | ----    | ----      |
| Physical Tests(QC Lot: 2581175) |            |        |       |          |         |           |
| Moisture                        | ----       | E144   | 0.25  | %        | <0.25   | ----      |
| Physical Tests(QC Lot: 2581349) |            |        |       |          |         |           |
| pH (1:2 soil:water)             | ----       | E108   | ----  | pH units | ----    | ----      |
| Physical Tests(QC Lot: 2581350) |            |        |       |          |         |           |
| Moisture                        | ----       | E144   | 0.25  | %        | <0.25   | ----      |
| Metals(QC Lot: 2581158)         |            |        |       |          |         |           |
| Mercury                         | 7439-97-6  | E510   | 0.005 | mg/kg    | <0.0050 | ----      |
| Metals(QC Lot: 2581159)         |            |        |       |          |         |           |
| Aluminum                        | 7429-90-5  | E440   | 50    | mg/kg    | <50     | ----      |
| Antimony                        | 7440-36-0  | E440   | 0.1   | mg/kg    | <0.10   | ----      |
| Arsenic                         | 7440-38-2  | E440   | 0.1   | mg/kg    | <0.10   | ----      |
| Barium                          | 7440-39-3  | E440   | 0.5   | mg/kg    | <0.50   | ----      |
| Beryllium                       | 7440-41-7  | E440   | 0.1   | mg/kg    | <0.10   | ----      |
| Bismuth                         | 7440-69-9  | E440   | 0.2   | mg/kg    | <0.20   | ----      |
| Boron                           | 7440-42-8  | E440   | 5     | mg/kg    | <5.0    | ----      |
| Cadmium                         | 7440-43-9  | E440   | 0.02  | mg/kg    | <0.020  | ----      |
| Calcium                         | 7440-70-2  | E440   | 50    | mg/kg    | <50     | ----      |
| Chromium                        | 7440-47-3  | E440   | 0.5   | mg/kg    | <0.50   | ----      |
| Cobalt                          | 7440-48-4  | E440   | 0.1   | mg/kg    | <0.10   | ----      |
| Copper                          | 7440-50-8  | E440   | 0.5   | mg/kg    | <0.50   | ----      |
| Iron                            | 7439-89-6  | E440   | 50    | mg/kg    | <50     | ----      |
| Lead                            | 7439-92-1  | E440   | 0.5   | mg/kg    | <0.50   | ----      |
| Lithium                         | 7439-93-2  | E440   | 2     | mg/kg    | <2.0    | ----      |
| Magnesium                       | 7439-95-4  | E440   | 20    | mg/kg    | <20     | ----      |
| Manganese                       | 7439-96-5  | E440   | 1     | mg/kg    | <1.0    | ----      |
| Molybdenum                      | 7439-98-7  | E440   | 0.1   | mg/kg    | <0.10   | ----      |



**Sub-Matrix: Soil/Solid**

| Analyte                        | CAS Number | Method | LOR  | Unit  | Result | Qualifier |
|--------------------------------|------------|--------|------|-------|--------|-----------|
| <b>Metals(QC Lot: 2581159)</b> |            |        |      |       |        |           |
| Nickel                         | 7440-02-0  | E440   | 0.5  | mg/kg | <0.50  | ----      |
| Phosphorus                     | 7723-14-0  | E440   | 50   | mg/kg | <50    | ----      |
| Potassium                      | 7440-09-7  | E440   | 100  | mg/kg | <100   | ----      |
| Selenium                       | 7782-49-2  | E440   | 0.2  | mg/kg | <0.20  | ----      |
| Silver                         | 7440-22-4  | E440   | 0.1  | mg/kg | <0.10  | ----      |
| Sodium                         | 7440-23-5  | E440   | 50   | mg/kg | <50    | ----      |
| Strontium                      | 7440-24-6  | E440   | 0.5  | mg/kg | <0.50  | ----      |
| Sulfur                         | 7704-34-9  | E440   | 1000 | mg/kg | <1000  | ----      |
| Thallium                       | 7440-28-0  | E440   | 0.05 | mg/kg | <0.050 | ----      |
| Tin                            | 7440-31-5  | E440   | 2    | mg/kg | <2.0   | ----      |
| Titanium                       | 7440-32-6  | E440   | 1    | mg/kg | <1.0   | ----      |
| Tungsten                       | 7440-33-7  | E440   | 0.5  | mg/kg | <0.50  | ----      |
| Uranium                        | 7440-61-1  | E440   | 0.05 | mg/kg | <0.050 | ----      |
| Vanadium                       | 7440-62-2  | E440   | 0.2  | mg/kg | <0.20  | ----      |
| Zinc                           | 7440-66-6  | E440   | 2    | mg/kg | <2.0   | ----      |
| Zirconium                      | 7440-67-7  | E440   | 1    | mg/kg | <1.0   | ----      |
| <b>Metals(QC Lot: 2581347)</b> |            |        |      |       |        |           |
| Aluminum                       | 7429-90-5  | E440   | 50   | mg/kg | <50    | ----      |
| Antimony                       | 7440-36-0  | E440   | 0.1  | mg/kg | <0.10  | ----      |
| Arsenic                        | 7440-38-2  | E440   | 0.1  | mg/kg | <0.10  | ----      |
| Barium                         | 7440-39-3  | E440   | 0.5  | mg/kg | <0.50  | ----      |
| Beryllium                      | 7440-41-7  | E440   | 0.1  | mg/kg | <0.10  | ----      |
| Bismuth                        | 7440-69-9  | E440   | 0.2  | mg/kg | <0.20  | ----      |
| Boron                          | 7440-42-8  | E440   | 5    | mg/kg | <5.0   | ----      |
| Cadmium                        | 7440-43-9  | E440   | 0.02 | mg/kg | <0.020 | ----      |
| Calcium                        | 7440-70-2  | E440   | 50   | mg/kg | <50    | ----      |
| Chromium                       | 7440-47-3  | E440   | 0.5  | mg/kg | <0.50  | ----      |
| Cobalt                         | 7440-48-4  | E440   | 0.1  | mg/kg | <0.10  | ----      |
| Copper                         | 7440-50-8  | E440   | 0.5  | mg/kg | <0.50  | ----      |
| Iron                           | 7439-89-6  | E440   | 50   | mg/kg | <50    | ----      |
| Lead                           | 7439-92-1  | E440   | 0.5  | mg/kg | <0.50  | ----      |
| Lithium                        | 7439-93-2  | E440   | 2    | mg/kg | <2.0   | ----      |
| Magnesium                      | 7439-95-4  | E440   | 20   | mg/kg | <20    | ----      |
| Manganese                      | 7439-96-5  | E440   | 1    | mg/kg | <1.0   | ----      |
| Molybdenum                     | 7439-98-7  | E440   | 0.1  | mg/kg | <0.10  | ----      |
| Nickel                         | 7440-02-0  | E440   | 0.5  | mg/kg | <0.50  | ----      |
| Phosphorus                     | 7723-14-0  | E440   | 50   | mg/kg | <50    | ----      |
| Potassium                      | 7440-09-7  | E440   | 100  | mg/kg | <100   | ----      |



**Sub-Matrix: Soil/Solid**

| Analyte                             | CAS Number | Method | LOR   | Unit  | Result  | Qualifier |
|-------------------------------------|------------|--------|-------|-------|---------|-----------|
| <b>Metals(QC Lot: 2581347)</b>      |            |        |       |       |         |           |
| Selenium                            | 7782-49-2  | E440   | 0.2   | mg/kg | <0.20   | ----      |
| Silver                              | 7440-22-4  | E440   | 0.1   | mg/kg | <0.10   | ----      |
| Sodium                              | 7440-23-5  | E440   | 50    | mg/kg | <50     | ----      |
| Strontium                           | 7440-24-6  | E440   | 0.5   | mg/kg | <0.50   | ----      |
| Sulfur                              | 7704-34-9  | E440   | 1000  | mg/kg | <1000   | ----      |
| Thallium                            | 7440-28-0  | E440   | 0.05  | mg/kg | <0.050  | ----      |
| Tin                                 | 7440-31-5  | E440   | 2     | mg/kg | <2.0    | ----      |
| Titanium                            | 7440-32-6  | E440   | 1     | mg/kg | <1.0    | ----      |
| Tungsten                            | 7440-33-7  | E440   | 0.5   | mg/kg | <0.50   | ----      |
| Uranium                             | 7440-61-1  | E440   | 0.05  | mg/kg | <0.050  | ----      |
| Vanadium                            | 7440-62-2  | E440   | 0.2   | mg/kg | <0.20   | ----      |
| Zinc                                | 7440-66-6  | E440   | 2     | mg/kg | <2.0    | ----      |
| Zirconium                           | 7440-67-7  | E440   | 1     | mg/kg | <1.0    | ----      |
| <b>Metals(QC Lot: 2581348)</b>      |            |        |       |       |         |           |
| Mercury                             | 7439-97-6  | E510   | 0.005 | mg/kg | <0.0050 | ----      |
| <b>TCLP Metals(QC Lot: 2585366)</b> |            |        |       |       |         |           |
| Mercury, TCLP                       | 7439-97-6  | E512   | 0.001 | mg/L  | <0.0010 | ----      |
| <b>TCLP Metals(QC Lot: 2585367)</b> |            |        |       |       |         |           |
| Antimony, TCLP                      | 7440-36-0  | E444   | 0.1   | mg/L  | <0.10   | ----      |
| Arsenic, TCLP                       | 7440-38-2  | E444   | 1     | mg/L  | <1.0    | ----      |
| Barium, TCLP                        | 7440-39-3  | E444   | 2.5   | mg/L  | <2.5    | ----      |
| Beryllium, TCLP                     | 7440-41-7  | E444   | 0.025 | mg/L  | <0.025  | ----      |
| Boron, TCLP                         | 7440-42-8  | E444   | 0.5   | mg/L  | <0.50   | ----      |
| Cadmium, TCLP                       | 7440-43-9  | E444   | 0.05  | mg/L  | <0.050  | ----      |
| Calcium, TCLP                       | 7440-70-2  | E444   | 10    | mg/L  | <10     | ----      |
| Chromium, TCLP                      | 7440-47-3  | E444   | 0.25  | mg/L  | <0.25   | ----      |
| Cobalt, TCLP                        | 7440-48-4  | E444   | 0.05  | mg/L  | <0.050  | ----      |
| Copper, TCLP                        | 7440-50-8  | E444   | 0.05  | mg/L  | <0.050  | ----      |
| Iron, TCLP                          | 7439-89-6  | E444   | 5     | mg/L  | <5.0    | ----      |
| Lead, TCLP                          | 7439-92-1  | E444   | 0.25  | mg/L  | <0.25   | ----      |
| Magnesium, TCLP                     | 7439-95-4  | E444   | 2.5   | mg/L  | <2.5    | ----      |
| Nickel, TCLP                        | 7440-02-0  | E444   | 0.25  | mg/L  | <0.25   | ----      |
| Selenium, TCLP                      | 7782-49-2  | E444   | 0.1   | mg/L  | <0.10   | ----      |
| Silver, TCLP                        | 7440-22-4  | E444   | 0.05  | mg/L  | <0.050  | ----      |
| Thallium, TCLP                      | 7440-28-0  | E444   | 1     | mg/L  | <1.0    | ----      |
| Uranium, TCLP                       | 7440-61-1  | E444   | 0.2   | mg/L  | <0.20   | ----      |
| Vanadium, TCLP                      | 7440-62-2  | E444   | 0.15  | mg/L  | <0.15   | ----      |
| Zinc, TCLP                          | 7440-66-6  | E444   | 0.5   | mg/L  | <0.50   | ----      |



**Sub-Matrix: Soil/Solid**

| Analyte                             | CAS Number | Method | LOR | Unit | Result | Qualifier |
|-------------------------------------|------------|--------|-----|------|--------|-----------|
| <b>TCLP Metals(QC Lot: 2585367)</b> |            |        |     |      |        |           |
| Zirconium, TCLP                     | 7440-67-7  | E444   | 10  | mg/L | <10    | ----      |

**Laboratory Control Sample (LCS) Report**

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

**Sub-Matrix: Soil**

|                                        |            |        |       |          | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|----------------------------------------|------------|--------|-------|----------|----------------------------------------|--------------|---------------------|------|-----------|
|                                        |            |        |       |          | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                | CAS Number | Method | LOR   | Unit     | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| <b>Physical Tests(QC Lot: 2581160)</b> |            |        |       |          |                                        |              |                     |      |           |
| pH (1:2 soil:water)                    | ----       | E108   | ----  | pH units | 6 pH units                             | 100          | 95.0                | 105  | ----      |
| <b>Physical Tests(QC Lot: 2581175)</b> |            |        |       |          |                                        |              |                     |      |           |
| Moisture                               | ----       | E144   | 0.25  | %        | 50 %                                   | 99.8         | 90.0                | 110  | ----      |
| <b>Physical Tests(QC Lot: 2581349)</b> |            |        |       |          |                                        |              |                     |      |           |
| pH (1:2 soil:water)                    | ----       | E108   | ----  | pH units | 6 pH units                             | 100          | 95.0                | 105  | ----      |
| <b>Physical Tests(QC Lot: 2581350)</b> |            |        |       |          |                                        |              |                     |      |           |
| Moisture                               | ----       | E144   | 0.25  | %        | 50 %                                   | 101          | 90.0                | 110  | ----      |
| <b>Metals(QC Lot: 2581158)</b>         |            |        |       |          |                                        |              |                     |      |           |
| Mercury                                | 7439-97-6  | E510   | 0.005 | mg/kg    | 0.1 mg/kg                              | 93.8         | 80.0                | 120  | ----      |
| <b>Metals(QC Lot: 2581159)</b>         |            |        |       |          |                                        |              |                     |      |           |
| Aluminum                               | 7429-90-5  | E440   | 50    | mg/kg    | 200 mg/kg                              | 94.7         | 80.0                | 120  | ----      |
| Antimony                               | 7440-36-0  | E440   | 0.1   | mg/kg    | 100 mg/kg                              | 101          | 80.0                | 120  | ----      |
| Arsenic                                | 7440-38-2  | E440   | 0.1   | mg/kg    | 100 mg/kg                              | 101          | 80.0                | 120  | ----      |
| Barium                                 | 7440-39-3  | E440   | 0.5   | mg/kg    | 25 mg/kg                               | 97.5         | 80.0                | 120  | ----      |
| Beryllium                              | 7440-41-7  | E440   | 0.1   | mg/kg    | 10 mg/kg                               | 94.4         | 80.0                | 120  | ----      |
| Bismuth                                | 7440-69-9  | E440   | 0.2   | mg/kg    | 100 mg/kg                              | 91.1         | 80.0                | 120  | ----      |
| Boron                                  | 7440-42-8  | E440   | 5     | mg/kg    | 100 mg/kg                              | 96.5         | 80.0                | 120  | ----      |
| Cadmium                                | 7440-43-9  | E440   | 0.02  | mg/kg    | 10 mg/kg                               | 95.5         | 80.0                | 120  | ----      |
| Calcium                                | 7440-70-2  | E440   | 50    | mg/kg    | 5000 mg/kg                             | 92.6         | 80.0                | 120  | ----      |
| Chromium                               | 7440-47-3  | E440   | 0.5   | mg/kg    | 25 mg/kg                               | 92.9         | 80.0                | 120  | ----      |
| Cobalt                                 | 7440-48-4  | E440   | 0.1   | mg/kg    | 25 mg/kg                               | 93.5         | 80.0                | 120  | ----      |
| Copper                                 | 7440-50-8  | E440   | 0.5   | mg/kg    | 25 mg/kg                               | 91.7         | 80.0                | 120  | ----      |
| Iron                                   | 7439-89-6  | E440   | 50    | mg/kg    | 100 mg/kg                              | 93.4         | 80.0                | 120  | ----      |
| Lead                                   | 7439-92-1  | E440   | 0.5   | mg/kg    | 50 mg/kg                               | 97.0         | 80.0                | 120  | ----      |
| Lithium                                | 7439-93-2  | E440   | 2     | mg/kg    | 25 mg/kg                               | 93.6         | 80.0                | 120  | ----      |
| Magnesium                              | 7439-95-4  | E440   | 20    | mg/kg    | 5000 mg/kg                             | 96.9         | 80.0                | 120  | ----      |



**Sub-Matrix: Soil**

|                                |            |        |      |       | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------|------------|--------|------|-------|----------------------------------------|--------------|---------------------|------|-----------|
|                                |            |        |      |       | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                        | CAS Number | Method | LOR  | Unit  | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| <b>Metals(QC Lot: 2581159)</b> |            |        |      |       |                                        |              |                     |      |           |
| Manganese                      | 7439-96-5  | E440   | 1    | mg/kg | 25 mg/kg                               | 92.8         | 80.0                | 120  | ----      |
| Molybdenum                     | 7439-98-7  | E440   | 0.1  | mg/kg | 25 mg/kg                               | 103          | 80.0                | 120  | ----      |
| Nickel                         | 7440-02-0  | E440   | 0.5  | mg/kg | 50 mg/kg                               | 91.1         | 80.0                | 120  | ----      |
| Phosphorus                     | 7723-14-0  | E440   | 50   | mg/kg | 1000 mg/kg                             | 105          | 80.0                | 120  | ----      |
| Potassium                      | 7440-09-7  | E440   | 100  | mg/kg | 5000 mg/kg                             | 94.2         | 80.0                | 120  | ----      |
| Selenium                       | 7782-49-2  | E440   | 0.2  | mg/kg | 100 mg/kg                              | 101          | 80.0                | 120  | ----      |
| Silver                         | 7440-22-4  | E440   | 0.1  | mg/kg | 10 mg/kg                               | 94.5         | 80.0                | 120  | ----      |
| Sodium                         | 7440-23-5  | E440   | 50   | mg/kg | 5000 mg/kg                             | 92.0         | 80.0                | 120  | ----      |
| Strontium                      | 7440-24-6  | E440   | 0.5  | mg/kg | 25 mg/kg                               | 98.8         | 80.0                | 120  | ----      |
| Sulfur                         | 7704-34-9  | E440   | 1000 | mg/kg | 5000 mg/kg                             | 96.3         | 80.0                | 120  | ----      |
| Thallium                       | 7440-28-0  | E440   | 0.05 | mg/kg | 100 mg/kg                              | 93.3         | 80.0                | 120  | ----      |
| Tin                            | 7440-31-5  | E440   | 2    | mg/kg | 50 mg/kg                               | 103          | 80.0                | 120  | ----      |
| Titanium                       | 7440-32-6  | E440   | 1    | mg/kg | 25 mg/kg                               | 99.6         | 80.0                | 120  | ----      |
| Tungsten                       | 7440-33-7  | E440   | 0.5  | mg/kg | 10 mg/kg                               | 101          | 80.0                | 120  | ----      |
| Uranium                        | 7440-61-1  | E440   | 0.05 | mg/kg | 0.5 mg/kg                              | 101          | 80.0                | 120  | ----      |
| Vanadium                       | 7440-62-2  | E440   | 0.2  | mg/kg | 50 mg/kg                               | 93.3         | 80.0                | 120  | ----      |
| Zinc                           | 7440-66-6  | E440   | 2    | mg/kg | 50 mg/kg                               | 93.5         | 80.0                | 120  | ----      |
| Zirconium                      | 7440-67-7  | E440   | 1    | mg/kg | 10 mg/kg                               | 99.5         | 80.0                | 120  | ----      |
| <b>Metals(QC Lot: 2581347)</b> |            |        |      |       |                                        |              |                     |      |           |
| Aluminum                       | 7429-90-5  | E440   | 50   | mg/kg | 200 mg/kg                              | 102          | 80.0                | 120  | ----      |
| Antimony                       | 7440-36-0  | E440   | 0.1  | mg/kg | 100 mg/kg                              | 108          | 80.0                | 120  | ----      |
| Arsenic                        | 7440-38-2  | E440   | 0.1  | mg/kg | 100 mg/kg                              | 107          | 80.0                | 120  | ----      |
| Barium                         | 7440-39-3  | E440   | 0.5  | mg/kg | 25 mg/kg                               | 106          | 80.0                | 120  | ----      |
| Beryllium                      | 7440-41-7  | E440   | 0.1  | mg/kg | 10 mg/kg                               | 110          | 80.0                | 120  | ----      |
| Bismuth                        | 7440-69-9  | E440   | 0.2  | mg/kg | 100 mg/kg                              | 96.1         | 80.0                | 120  | ----      |
| Boron                          | 7440-42-8  | E440   | 5    | mg/kg | 100 mg/kg                              | 100          | 80.0                | 120  | ----      |
| Cadmium                        | 7440-43-9  | E440   | 0.02 | mg/kg | 10 mg/kg                               | 104          | 80.0                | 120  | ----      |
| Calcium                        | 7440-70-2  | E440   | 50   | mg/kg | 5000 mg/kg                             | 106          | 80.0                | 120  | ----      |
| Chromium                       | 7440-47-3  | E440   | 0.5  | mg/kg | 25 mg/kg                               | 103          | 80.0                | 120  | ----      |
| Cobalt                         | 7440-48-4  | E440   | 0.1  | mg/kg | 25 mg/kg                               | 104          | 80.0                | 120  | ----      |
| Copper                         | 7440-50-8  | E440   | 0.5  | mg/kg | 25 mg/kg                               | 103          | 80.0                | 120  | ----      |
| Iron                           | 7439-89-6  | E440   | 50   | mg/kg | 100 mg/kg                              | 104          | 80.0                | 120  | ----      |
| Lead                           | 7439-92-1  | E440   | 0.5  | mg/kg | 50 mg/kg                               | 101          | 80.0                | 120  | ----      |
| Lithium                        | 7439-93-2  | E440   | 2    | mg/kg | 25 mg/kg                               | 105          | 80.0                | 120  | ----      |
| Magnesium                      | 7439-95-4  | E440   | 20   | mg/kg | 5000 mg/kg                             | 110          | 80.0                | 120  | ----      |
| Manganese                      | 7439-96-5  | E440   | 1    | mg/kg | 25 mg/kg                               | 103          | 80.0                | 120  | ----      |
| Molybdenum                     | 7439-98-7  | E440   | 0.1  | mg/kg | 25 mg/kg                               | 106          | 80.0                | 120  | ----      |



**Sub-Matrix: Soil**

|                                |            |        |       |       | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------|------------|--------|-------|-------|----------------------------------------|--------------|---------------------|------|-----------|
|                                |            |        |       |       | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                        | CAS Number | Method | LOR   | Unit  | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| <b>Metals(QC Lot: 2581347)</b> |            |        |       |       |                                        |              |                     |      |           |
| Nickel                         | 7440-02-0  | E440   | 0.5   | mg/kg | 50 mg/kg                               | 104          | 80.0                | 120  | ----      |
| Phosphorus                     | 7723-14-0  | E440   | 50    | mg/kg | 1000 mg/kg                             | 114          | 80.0                | 120  | ----      |
| Potassium                      | 7440-09-7  | E440   | 100   | mg/kg | 5000 mg/kg                             | 106          | 80.0                | 120  | ----      |
| Selenium                       | 7782-49-2  | E440   | 0.2   | mg/kg | 100 mg/kg                              | 105          | 80.0                | 120  | ----      |
| Silver                         | 7440-22-4  | E440   | 0.1   | mg/kg | 10 mg/kg                               | 106          | 80.0                | 120  | ----      |
| Sodium                         | 7440-23-5  | E440   | 50    | mg/kg | 5000 mg/kg                             | 106          | 80.0                | 120  | ----      |
| Strontium                      | 7440-24-6  | E440   | 0.5   | mg/kg | 25 mg/kg                               | 108          | 80.0                | 120  | ----      |
| Sulfur                         | 7704-34-9  | E440   | 1000  | mg/kg | 5000 mg/kg                             | 103          | 80.0                | 120  | ----      |
| Thallium                       | 7440-28-0  | E440   | 0.05  | mg/kg | 100 mg/kg                              | 101          | 80.0                | 120  | ----      |
| Tin                            | 7440-31-5  | E440   | 2     | mg/kg | 50 mg/kg                               | 106          | 80.0                | 120  | ----      |
| Titanium                       | 7440-32-6  | E440   | 1     | mg/kg | 25 mg/kg                               | 100          | 80.0                | 120  | ----      |
| Tungsten                       | 7440-33-7  | E440   | 0.5   | mg/kg | 10 mg/kg                               | 104          | 80.0                | 120  | ----      |
| Uranium                        | 7440-61-1  | E440   | 0.05  | mg/kg | 0.5 mg/kg                              | 105          | 80.0                | 120  | ----      |
| Vanadium                       | 7440-62-2  | E440   | 0.2   | mg/kg | 50 mg/kg                               | 106          | 80.0                | 120  | ----      |
| Zinc                           | 7440-66-6  | E440   | 2     | mg/kg | 50 mg/kg                               | 106          | 80.0                | 120  | ----      |
| Zirconium                      | 7440-67-7  | E440   | 1     | mg/kg | 10 mg/kg                               | 100          | 80.0                | 120  | ----      |
| <b>Metals(QC Lot: 2581348)</b> |            |        |       |       |                                        |              |                     |      |           |
| Mercury                        | 7439-97-6  | E510   | 0.005 | mg/kg | 0.1 mg/kg                              | 93.6         | 80.0                | 120  | ----      |



## Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for

Sub-Matrix: Soil

|                              |                  |                 |            |        | Matrix Spike (MS) Report |            |              |              |      |           |
|------------------------------|------------------|-----------------|------------|--------|--------------------------|------------|--------------|--------------|------|-----------|
|                              |                  |                 |            |        | Spike                    |            | Recovery (%) | Recovery (%) |      | Qualifier |
| Laboratory sample ID         | Client sample ID | Analyte         | CAS Number | Method | Concentration            | Target     | MS           | Low          | High |           |
| TCLP Metals(QC Lot: 2585366) |                  |                 |            |        |                          |            |              |              |      |           |
| VA26B1006-001                | BA 2618-A-1      | Mercury, TCLP   | 7439-97-6  | E512   | 0.0027 mg/L              | 0.003 mg/L | 88.5         | 50.0         | 140  | ---       |
| TCLP Metals(QC Lot: 2585367) |                  |                 |            |        |                          |            |              |              |      |           |
| VA26B1006-001                | BA 2618-A-1      | Antimony, TCLP  | 7440-36-0  | E444   | 4.69 mg/L                | 5 mg/L     | 93.8         | 50.0         | 140  | ---       |
|                              |                  | Arsenic, TCLP   | 7440-38-2  | E444   | 4.7 mg/L                 | 5 mg/L     | 93.2         | 50.0         | 140  | ---       |
|                              |                  | Barium, TCLP    | 7440-39-3  | E444   | 11.0 mg/L                | 12.5 mg/L  | 87.9         | 50.0         | 140  | ---       |
|                              |                  | Beryllium, TCLP | 7440-41-7  | E444   | 0.250 mg/L               | 0.25 mg/L  | 100          | 50.0         | 140  | ---       |
|                              |                  | Boron, TCLP     | 7440-42-8  | E444   | 8.67 mg/L                | 10 mg/L    | 86.7         | 50.0         | 140  | ---       |
|                              |                  | Cadmium, TCLP   | 7440-43-9  | E444   | 0.225 mg/L               | 0.25 mg/L  | 90.1         | 50.0         | 140  | ---       |
|                              |                  | Calcium, TCLP   | 7440-70-2  | E444   | ND                       | ----       | ND           | 50.0         | 140  | ---       |
|                              |                  | Chromium, TCLP  | 7440-47-3  | E444   | 1.13 mg/L                | 1.25 mg/L  | 90.1         | 50.0         | 140  | ---       |
|                              |                  | Cobalt, TCLP    | 7440-48-4  | E444   | 0.224 mg/L               | 0.25 mg/L  | 89.5         | 50.0         | 140  | ---       |
|                              |                  | Copper, TCLP    | 7440-50-8  | E444   | 2.15 mg/L                | 2.5 mg/L   | 86.2         | 50.0         | 140  | ---       |
|                              |                  | Iron, TCLP      | 7439-89-6  | E444   | 222 mg/L                 | 250 mg/L   | 88.6         | 50.0         | 140  | ---       |
|                              |                  | Lead, TCLP      | 7439-92-1  | E444   | 9.13 mg/L                | 10 mg/L    | 91.3         | 50.0         | 140  | ---       |
|                              |                  | Magnesium, TCLP | 7439-95-4  | E444   | 232 mg/L                 | 250 mg/L   | 92.8         | 50.0         | 140  | ---       |
|                              |                  | Nickel, TCLP    | 7440-02-0  | E444   | 2.24 mg/L                | 2.5 mg/L   | 89.4         | 50.0         | 140  | ---       |
|                              |                  | Selenium, TCLP  | 7782-49-2  | E444   | 4.72 mg/L                | 5 mg/L     | 94.4         | 50.0         | 140  | ---       |
|                              |                  | Silver, TCLP    | 7440-22-4  | E444   | 0.093 mg/L               | 0.1 mg/L   | 92.6         | 50.0         | 140  | ---       |
|                              |                  | Thallium, TCLP  | 7440-28-0  | E444   | 4.5 mg/L                 | 5 mg/L     | 90.5         | 50.0         | 140  | ---       |
|                              |                  | Uranium, TCLP   | 7440-61-1  | E444   | 4.52 mg/L                | 5 mg/L     | 90.5         | 50.0         | 150  | ---       |
|                              |                  | Vanadium, TCLP  | 7440-62-2  | E444   | 0.68 mg/L                | 0.75 mg/L  | 91.3         | 50.0         | 140  | ---       |
|                              |                  | Zinc, TCLP      | 7440-66-6  | E444   | 9.06 mg/L                | 10 mg/L    | 90.6         | 50.0         | 140  | ---       |
|                              |                  | Zirconium, TCLP | 7440-67-7  | E444   | 0.8 mg/L                 | 1 mg/L     | 82.7         | 50.0         | 150  | ---       |

## Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).



method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte



Sub-Matrix: Soil

|                         |                  |         |            |        | Reference M                                                                                                                                                      |
|-------------------------|------------------|---------|------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         |                  |         |            |        | An error has occurred while processing TextBox 'textBox360':<br>The expression contains object 'caption_RefMaterial' that is not defined in the current context. |
| Laboratory sample ID    | Client sample ID | Analyte | CAS Number | Method | Target Concentration                                                                                                                                             |
| Metals(QC Lot: 2581158) |                  |         |            |        |                                                                                                                                                                  |
| QC-MRG2-2581158001      |                  | Mercury | 7439-97-6  | E510   | An error has occurred while processing TextBox 'textBox360':<br>The expression contains object 'caption_RefMaterial' that is not defined in the current context. |



| Material (RM) Report                                                                                                                                           |        |                     |      |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------|------|-----------|
| Recovery (%)                                                                                                                                                   |        | Recovery Limits (%) |      |           |
| <div>           occurred while processing TextBox 'textBox361':<br/>           contains object 'caption_RefMaterial' that is not defined in the         </div> |        | Low                 | High | Qualifier |
| g/kg                                                                                                                                                           | # 97.0 | 70.0                | 130  | ----      |



Sub-Matrix: Soil

Reference M

An error has occurred while processing TextBox 'textBox360':  
 The expression contains object 'caption\_RefMaterial' that is not defined in the current context.

| Laboratory sample ID    | Client sample ID | Analyte    | CAS Number | Method | Target Concentration | An error has occurred while processing TextBox 'textBox360':<br>The expression contains object 'caption_RefMaterial' that is not defined in the current context. |
|-------------------------|------------------|------------|------------|--------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Metals(QC Lot: 2581159) |                  |            |            |        |                      |                                                                                                                                                                  |
| QC-MRG2-2581158001      |                  | Aluminum   |            |        | 7429-90-5            | E440                                                                                                                                                             |
|                         |                  | Antimony   |            |        | 7440-36-0            | E440                                                                                                                                                             |
|                         |                  | Arsenic    |            |        | 7440-38-2            | E440                                                                                                                                                             |
|                         |                  | Barium     |            |        | 7440-39-3            | E440                                                                                                                                                             |
|                         |                  | Beryllium  |            |        | 7440-41-7            | E440                                                                                                                                                             |
|                         |                  | Bismuth    |            |        | 7440-69-9            | E440                                                                                                                                                             |
|                         |                  | Cadmium    |            |        | 7440-43-9            | E440                                                                                                                                                             |
|                         |                  | Calcium    |            |        | 7440-70-2            | E440                                                                                                                                                             |
|                         |                  | Chromium   |            |        | 7440-47-3            | E440                                                                                                                                                             |
|                         |                  | Cobalt     |            |        | 7440-48-4            | E440                                                                                                                                                             |
|                         |                  | Copper     |            |        | 7440-50-8            | E440                                                                                                                                                             |
|                         |                  | Iron       |            |        | 7439-89-6            | E440                                                                                                                                                             |
|                         |                  | Lead       |            |        | 7439-92-1            | E440                                                                                                                                                             |
|                         |                  | Lithium    |            |        | 7439-93-2            | E440                                                                                                                                                             |
|                         |                  | Magnesium  |            |        | 7439-95-4            | E440                                                                                                                                                             |
|                         |                  | Manganese  |            |        | 7439-96-5            | E440                                                                                                                                                             |
|                         |                  | Molybdenum |            |        | 7439-98-7            | E440                                                                                                                                                             |
|                         |                  | Nickel     |            |        | 7440-02-0            | E440                                                                                                                                                             |
|                         |                  | Phosphorus |            |        | 7723-14-0            | E440                                                                                                                                                             |
|                         |                  | Potassium  |            |        | 7440-09-7            | E440                                                                                                                                                             |
|                         |                  | Selenium   |            |        | 7782-49-2            | E440                                                                                                                                                             |
|                         |                  | Silver     |            |        | 7440-22-4            | E440                                                                                                                                                             |
|                         |                  | Sodium     |            |        | 7440-23-5            | E440                                                                                                                                                             |
|                         |                  | Strontium  |            |        | 7440-24-6            | E440                                                                                                                                                             |
|                         |                  | Sulfur     |            |        | 7704-34-9            | E440                                                                                                                                                             |
|                         |                  | Thallium   |            |        | 7440-28-0            | E440                                                                                                                                                             |
|                         |                  | Tin        |            |        | 7440-31-5            | E440                                                                                                                                                             |
|                         |                  | Titanium   |            |        | 7440-32-6            | E440                                                                                                                                                             |
|                         |                  | Tungsten   |            |        | 7440-33-7            | E440                                                                                                                                                             |
|                         |                  | Uranium    |            |        | 7440-61-1            | E440                                                                                                                                                             |
|                         |                  | Vanadium   |            |        | 7440-62-2            | E440                                                                                                                                                             |
|                         |                  | Zinc       |            |        | 7440-66-6            | E440                                                                                                                                                             |
|                         |                  | Zirconium  |            |        | 7440-67-7            | E440                                                                                                                                                             |



| Material (RM) Report                                                                                                     |        |                     |      |           |
|--------------------------------------------------------------------------------------------------------------------------|--------|---------------------|------|-----------|
| Recovery (%)                                                                                                             |        | Recovery Limits (%) |      |           |
| occurred while processing TextBox 'textBox361':<br>contains object 'caption_RefMaterial' that is not defined in the<br>. |        | Low                 | High | Qualifier |
| /kg                                                                                                                      | # 98.2 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 94.7 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 89.1 | 70.0                | 130  | ----      |
| cg                                                                                                                       | # 91.6 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 98.6 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 82.9 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 95.6 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 92.1 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 92.1 | 70.0                | 130  | ----      |
| g                                                                                                                        | # 93.4 | 70.0                | 130  | ----      |
| cg                                                                                                                       | # 90.9 | 70.0                | 130  | ----      |
| /kg                                                                                                                      | # 92.6 | 70.0                | 130  | ----      |
| cg                                                                                                                       | # 91.3 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 97.6 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 95.9 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 93.0 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 95.2 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 93.0 | 70.0                | 130  | ----      |
| cg                                                                                                                       | # 99.6 | 70.0                | 130  | ----      |
| /kg                                                                                                                      | # 93.3 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 94.4 | 60.0                | 140  | ----      |
| kg                                                                                                                       | # 92.2 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 101  | 70.0                | 130  | ----      |
| g                                                                                                                        | # 96.3 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 67.8 | 50.0                | 150  | ----      |
| /kg                                                                                                                      | # 90.3 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 94.2 | 40.0                | 160  | ----      |
| kg                                                                                                                       | # 99.5 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 108  | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 105  | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 91.1 | 70.0                | 130  | ----      |
| cg                                                                                                                       | # 93.1 | 70.0                | 130  | ----      |
| kg                                                                                                                       | # 106  | 70.0                | 130  | ----      |



Sub-Matrix: Soil

Reference M

An error has occurred while processing TextBox 'textBox360':  
The expression contains object 'caption\_RefMaterial' that is not defined in the current context.

| Laboratory sample ID    | Client sample ID | Analyte    | CAS Number | Method | Target Concentration | An error has occurred while processing TextBox 'textBox360':<br>The expression contains object 'caption_RefMaterial' that is not defined in the current context. |
|-------------------------|------------------|------------|------------|--------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Metals(QC Lot: 2581347) |                  |            |            |        |                      |                                                                                                                                                                  |
| QC-MRG2-2581347001      |                  | Aluminum   |            |        | 7429-90-5            | E440                                                                                                                                                             |
|                         |                  | Antimony   |            |        | 7440-36-0            | E440                                                                                                                                                             |
|                         |                  | Arsenic    |            |        | 7440-38-2            | E440                                                                                                                                                             |
|                         |                  | Barium     |            |        | 7440-39-3            | E440                                                                                                                                                             |
|                         |                  | Beryllium  |            |        | 7440-41-7            | E440                                                                                                                                                             |
|                         |                  | Bismuth    |            |        | 7440-69-9            | E440                                                                                                                                                             |
|                         |                  | Cadmium    |            |        | 7440-43-9            | E440                                                                                                                                                             |
|                         |                  | Calcium    |            |        | 7440-70-2            | E440                                                                                                                                                             |
|                         |                  | Chromium   |            |        | 7440-47-3            | E440                                                                                                                                                             |
|                         |                  | Cobalt     |            |        | 7440-48-4            | E440                                                                                                                                                             |
|                         |                  | Copper     |            |        | 7440-50-8            | E440                                                                                                                                                             |
|                         |                  | Iron       |            |        | 7439-89-6            | E440                                                                                                                                                             |
|                         |                  | Lead       |            |        | 7439-92-1            | E440                                                                                                                                                             |
|                         |                  | Lithium    |            |        | 7439-93-2            | E440                                                                                                                                                             |
|                         |                  | Magnesium  |            |        | 7439-95-4            | E440                                                                                                                                                             |
|                         |                  | Manganese  |            |        | 7439-96-5            | E440                                                                                                                                                             |
|                         |                  | Molybdenum |            |        | 7439-98-7            | E440                                                                                                                                                             |
|                         |                  | Nickel     |            |        | 7440-02-0            | E440                                                                                                                                                             |
|                         |                  | Phosphorus |            |        | 7723-14-0            | E440                                                                                                                                                             |
|                         |                  | Potassium  |            |        | 7440-09-7            | E440                                                                                                                                                             |
|                         |                  | Selenium   |            |        | 7782-49-2            | E440                                                                                                                                                             |
|                         |                  | Silver     |            |        | 7440-22-4            | E440                                                                                                                                                             |
|                         |                  | Sodium     |            |        | 7440-23-5            | E440                                                                                                                                                             |
|                         |                  | Strontium  |            |        | 7440-24-6            | E440                                                                                                                                                             |
|                         |                  | Sulfur     |            |        | 7704-34-9            | E440                                                                                                                                                             |
|                         |                  | Thallium   |            |        | 7440-28-0            | E440                                                                                                                                                             |
|                         |                  | Tin        |            |        | 7440-31-5            | E440                                                                                                                                                             |
|                         |                  | Titanium   |            |        | 7440-32-6            | E440                                                                                                                                                             |
|                         |                  | Tungsten   |            |        | 7440-33-7            | E440                                                                                                                                                             |
|                         |                  | Uranium    |            |        | 7440-61-1            | E440                                                                                                                                                             |
|                         |                  | Vanadium   |            |        | 7440-62-2            | E440                                                                                                                                                             |
|                         |                  | Zinc       |            |        | 7440-66-6            | E440                                                                                                                                                             |
|                         |                  | Zirconium  |            |        | 7440-67-7            | E440                                                                                                                                                             |



| Material (RM) Report                                                                                                     |        |      |                     |           |
|--------------------------------------------------------------------------------------------------------------------------|--------|------|---------------------|-----------|
| Recovery (%)                                                                                                             |        |      | Recovery Limits (%) |           |
| occurred while processing TextBox 'textBox361':<br>contains object 'caption_RefMaterial' that is not defined in the<br>. |        |      | Low                 | High      |
|                                                                                                                          |        |      |                     | Qualifier |
| /kg                                                                                                                      | # 103  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 100  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 94.4 | 70.0 | 130                 | ---       |
| cg                                                                                                                       | # 94.7 | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 109  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 92.9 | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 103  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 104  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 98.2 | 70.0 | 130                 | ---       |
| g                                                                                                                        | # 98.5 | 70.0 | 130                 | ---       |
| cg                                                                                                                       | # 96.4 | 70.0 | 130                 | ---       |
| /kg                                                                                                                      | # 102  | 70.0 | 130                 | ---       |
| cg                                                                                                                       | # 91.6 | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 112  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 100  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 96.2 | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 99.9 | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 100  | 70.0 | 130                 | ---       |
| cg                                                                                                                       | # 103  | 70.0 | 130                 | ---       |
| /kg                                                                                                                      | # 99.8 | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 96.9 | 60.0 | 140                 | ---       |
| kg                                                                                                                       | # 96.4 | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 106  | 70.0 | 130                 | ---       |
| g                                                                                                                        | # 100  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 98.9 | 50.0 | 150                 | ---       |
| /kg                                                                                                                      | # 96.6 | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 99.1 | 40.0 | 160                 | ---       |
| kg                                                                                                                       | # 101  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 124  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 89.6 | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 98.3 | 70.0 | 130                 | ---       |
| cg                                                                                                                       | # 101  | 70.0 | 130                 | ---       |
| kg                                                                                                                       | # 106  | 70.0 | 130                 | ---       |



Sub-Matrix: Soil

Reference M

An error has occurred while processing TextBox 'textBox360':  
The expression contains object 'caption\_RefMaterial' that is not defined in the  
current context.

| Laboratory sample ID    | Client sample ID | Analyte | CAS Number | Method | Target Concentration | An error has occurred while processing TextBox 'textBox360':<br>The expression contains object 'caption_RefMaterial' that is not defined in the<br>current context. |
|-------------------------|------------------|---------|------------|--------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Metals(QC Lot: 2581348) |                  |         |            |        |                      |                                                                                                                                                                     |
| QC-MRG2-2581347001      |                  | Mercury | 7439-97-6  | E510   |                      |                                                                                                                                                                     |



| Material (RM) Report                                                                                                                                                            |        |                     |      |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------|------|-----------|
| Recovery (%)                                                                                                                                                                    |        | Recovery Limits (%) |      |           |
| <div>           occurred while processing TextBox 'textBox361':<br/>           contains object 'caption_RefMaterial' that is not defined in the<br/>           .         </div> |        | Low                 | High | Qualifier |
| /kg                                                                                                                                                                             | # 84.9 | 70.0                | 130  | ----      |

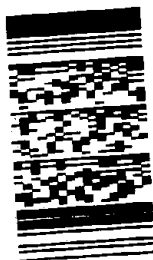


Chain of Custody / Analytical Request Form  
Canada Toll Free: 1 800 668 9878  
www.alsglobal.com

COC #

Page 1 of 1

|                                                                  |  |                                                                              |  |                                                                              |  |
|------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|
| <b>Report To</b>                                                 |  | <b>Report Format / Distribution</b>                                          |  | <b>Service Requested (Push for routine analysis subject to availability)</b> |  |
| Veolia Canada / Burnaby Waste To Energy Facility                 |  | "Veolia Email Distribution List" please                                      |  |                                                                              |  |
| <b>Company:</b> Veolia Canada / Burnaby Waste To Energy Facility |  |                                                                              |  |                                                                              |  |
| <b>Contact:</b> Darce Grace / Ranny Ghanem                       |  |                                                                              |  |                                                                              |  |
| <b>Address:</b> 5150 Riverbend Drive                             |  |                                                                              |  |                                                                              |  |
| Burnaby BC                                                       |  |                                                                              |  |                                                                              |  |
| <b>Phone:</b> 604-521-1025                                       |  | <b>Fax:</b>                                                                  |  |                                                                              |  |
|                                                                  |  |                                                                              |  |                                                                              |  |
| <b>Invoice To</b> Same as Report ?                               |  | <b>Veolia Water Canada</b>                                                   |  |                                                                              |  |
| <b>Hardcopy of invoice with Report?</b>                          |  | <b>Job #:</b> Veolia Weekly Bottom Ash - Suite                               |  |                                                                              |  |
| <b>Company:</b> Veolia Water Canada / Burnaby Waste To Energy    |  | <b>PO / A/E:</b> PO#                                                         |  |                                                                              |  |
| <b>Contact:</b> Danny George, Purchaser/Darce Grace, SHE Manager |  | <b>LSD:</b> (includes 2:1 pH)                                                |  |                                                                              |  |
| <b>Address:</b> 5150 Riverbend Drive, Burnaby BC V3N 4V3         |  |                                                                              |  |                                                                              |  |
| <b>Phone:</b> 604 521 1025 x209                                  |  | <b>Fax:</b>                                                                  |  |                                                                              |  |
| <b>Lab Work Order #</b>                                          |  | <b>ALS Contact:</b>                                                          |  |                                                                              |  |
| <b>Sample #</b>                                                  |  | <b>Sample Identification</b><br>(This description will appear on the report) |  | <b>Sampler:</b>                                                              |  |
|                                                                  |  |                                                                              |  |                                                                              |  |
| BA 2618-A-1                                                      |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-2                                                      |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-3                                                      |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-4                                                      |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-5                                                      |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-6                                                      |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-7                                                      |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-8                                                      |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-9                                                      |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-10                                                     |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-11                                                     |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| BA 2618-A-12                                                     |  | 4 May 2026                                                                   |  | 12:00                                                                        |  |
| water Aquatic                                                    |  | April 26, 2026 to April 02, 2026                                             |  |                                                                              |  |



Environmental Division  
Vancouver  
Work Order Reference  
VOA26B1006

Telephone : +1 604 253 4188

Number of Containers

|                                          |                        |                                             |                        |
|------------------------------------------|------------------------|---------------------------------------------|------------------------|
| <b>SHIPMENT RECEPTION (lab use only)</b> |                        | <b>SHIPMENT VERIFICATION (lab use only)</b> |                        |
| <b>Released by:</b>                      | <b>Date (dd-mm-yy)</b> | <b>Received by:</b>                         | <b>Date (dd-mm-yy)</b> |
|                                          |                        |                                             |                        |
| <b>Time (hh-mm)</b>                      |                        | <b>Time (hh-mm)</b>                         |                        |
|                                          |                        |                                             |                        |
| <b>Temperature:</b>                      |                        | <b>Verified by:</b>                         |                        |
|                                          |                        |                                             |                        |
| <b>Observations:</b>                     |                        | <b>Date:</b>                                |                        |
| Yes / No ?                               |                        |                                             |                        |
| If Yes add SIF                           |                        | <b>Time:</b>                                |                        |
|                                          |                        |                                             |                        |

# EMS OPERATIONAL PROCEDURE No. BA2

Approved \_\_\_\_\_

## Bottom Ash Sampling

### Bottom Ash Worksheet

|                                                                                    |                              |
|------------------------------------------------------------------------------------|------------------------------|
| Date sample composited<br>(DD/MM/YYYY)                                             | 04 / 05 / 2020               |
| Person doing the sampling                                                          | VINCE PASCUAL                |
| Total Sample Weight before<br>processing, kg                                       | 102.2 lbs<br><u>46.36 kg</u> |
| Weight of Material > 3/8", kg                                                      | 19.30 lbs<br><u>8.75 kg</u>  |
| Weight of Material that<br>cannot be processed to < 3/8"<br>(metal, wood, etc), kg | 14.70 lbs<br><u>6.67 kg</u>  |
| Final Total weight of<br>Processed Bottom Ash, kg                                  | 97.6 lbs<br><u>44.27 kg</u>  |

**Return this form with the filled Weekly Bottom Ash Composite Sample containers**

**Fill twelve bags with approximately 2000g of mixed bottom ash and label each with "Bottom Ash" and the week the ash composite is from, i.e. "June 9-15, 2019"**