



## CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

**Work Order** : **VA22A4602**  
**Client** : **Vancouver School Board**  
**Contact** : **Stephen Thomas**  
**Address** : **1549 Clark Drive**  
**Vancouver BC Canada V5L 3L4**  
**Telephone** : **----**  
**Project** : **Kerrisdale**  
**PO** : **----**  
**C-O-C number** : **20-985901**  
**Sampler** : **Robin LeMay**  
**Site** : **----**  
**Quote number** : **----**  
**No. of samples received** : **8**  
**No. of samples analysed** : **8**

**Page** : **1 of 3**  
**Laboratory** : **Vancouver - Environmental**  
**Account Manager** : **Tasnia Tarannum**  
**Address** : **8081 Lougheed Highway**  
**Burnaby, British Columbia Canada V5A 1W9**  
**Telephone** : **+1 604 253 4188**  
**Date Samples Received** : **04-Mar-2022 15:00**  
**Date Analysis Commenced** : **14-Mar-2022**  
**Issue Date** : **21-Mar-2022 15:53**

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
- Guideline Comparison

**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).**

### 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 |
| Kim Jensen         | Department Manager - Metals             | Metals, 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.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key : LOR: Limit of Reporting (detection limit).

| Unit | Description          |
|------|----------------------|
| mg/L | milligrams per litre |

>: greater than.

<: less than.

Red shading is applied where the result is greater than the Guideline Upper Limit or the result is lower than the Guideline Lower Limit.

For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

### Analytical Results Evaluation

| Matrix: | Client sample ID   | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
|---------|--------------------|------|------|------|------|------|------|------|
|         | Sampling date/time | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
|         | Sub-Matrix         | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte | CAS Number         | Unit | ---- | ---- | ---- | ---- | ---- | ---- |
|         | -                  |      |      |      |      |      |      |      |

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



**No Breaches Found**

|             |           |      |  |  |  |  |  |  |  |  |
|-------------|-----------|------|--|--|--|--|--|--|--|--|
| lead, total | 7439-92-1 | mg/L |  |  |  |  |  |  |  |  |
|-------------|-----------|------|--|--|--|--|--|--|--|--|

## QUALITY CONTROL INTERPRETIVE REPORT

|                         |   |                       |   |
|-------------------------|---|-----------------------|---|
| Work Order              | : <b>VA22A4602</b>                                | Page                  | : 1 of 6  |
| Client                  | : <b>Vancouver School Board</b>                   | Laboratory            | : Vancouver - Environmental   |
| Contact                 | : Stephen Thomas                                  | Account Manager       | : Tasnia Tarannum   |
| Address                 | : 1549 Clark Drive<br>Vancouver BC Canada V5L 3L4 | Address               | : 8081 Lougheed Highway<br>Burnaby, British Columbia Canada V5A 1W9 |
| Telephone               | : ----  | Telephone             | : +1 604 253 4188   |
| Project                 | : Kerrisdale                                      | Date Samples Received | : 04-Mar-2022 15:00   |
| PO                      | : ----  | Issue Date            | : 21-Mar-2022 15:53   |
| C-O-C number            | : 20-985901                                       |                       |   |
| Sampler                 | : Robin LeMay                                     |                       |   |
| Site                    | : ----  |                       |   |
| Quote number            | : ----  |                       |   |
| No. of samples received | : 8   |                       |   |
| No. of samples analysed | : 8   |                       |   |

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.

### **Workorder Comments**

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

### **Summary of Outliers**

#### **Outliers : Quality Control Samples**

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike 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.



## 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: **Water** Evaluation: \* = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                       | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE - total (lab preserved)</b><br>Bottle Filler Rm 108 Kerrisdale | E420   | 04-Mar-2022   | ----                     | ----          | ----   |      | 14-Mar-2022   | 180 days      | 10 days | ✓    |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE - total (lab preserved)</b><br>Bottle Filler Rm 208 Kerrisdale | E420   | 04-Mar-2022   | ----                     | ----          | ----   |      | 14-Mar-2022   | 180 days      | 10 days | ✓    |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE - total (lab preserved)</b><br>D.F Frame Building Kerrisdale   | E420   | 04-Mar-2022   | ----                     | ----          | ----   |      | 14-Mar-2022   | 180 days      | 10 days | ✓    |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE - total (lab preserved)</b><br>D.F Rm 001 Kerrisdale           | E420   | 04-Mar-2022   | ----                     | ----          | ----   |      | 14-Mar-2022   | 180 days      | 10 days | ✓    |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE - total (lab preserved)</b><br>D.F Rm 111 Kerrisdale           | E420   | 04-Mar-2022   | ----                     | ----          | ----   |      | 14-Mar-2022   | 180 days      | 10 days | ✓    |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE - total (lab preserved)</b><br>D.F Rm 212 Kerrisdale           | E420   | 04-Mar-2022   | ----                     | ----          | ----   |      | 14-Mar-2022   | 180 days      | 10 days | ✓    |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE - total (lab preserved)</b><br>D.F Rm. 005 Kerrisdale          | E420   | 04-Mar-2022   | ----                     | ----          | ----   |      | 14-Mar-2022   | 180 days      | 10 days | ✓    |



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)              | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|---|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|   |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|   |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>      |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE - total (lab preserved)</b><br>D.F Rm. 021 Kerrisdale | E420   | 04-Mar-2022   | ----                     | ----          | ----   |      | 14-Mar-2022   | 180 days      | 10 days | ✔    |

**Legend & Qualifier Definitions**

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: **Water** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type             | Method | QC Lot # | Count |         | Frequency (%) |          | Evaluation |
|---|--------|----------|-------|---------|---------------|----------|------------|
|   |        |          | QC    | Regular | Actual        | Expected |            |
| <b>Analytical Methods</b>               |        |          |       |         |               |          |            |
| <b>Laboratory Duplicates (DUP)</b>      |        |          |       |         |               |          |            |
| Total Metals in Water by CRC ICPMS      | E420   | 431773   | 2     | 31      | 6.4           | 5.0      | ✔          |
| <b>Laboratory Control Samples (LCS)</b> |        |          |       |         |               |          |            |
| Total Metals in Water by CRC ICPMS      | E420   | 431773   | 2     | 31      | 6.4           | 5.0      | ✔          |
| <b>Method Blanks (MB)</b>               |        |          |       |         |               |          |            |
| Total Metals in Water by CRC ICPMS      | E420   | 431773   | 2     | 31      | 6.4           | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>               |        |          |       |         |               |          |            |
| Total Metals in Water by CRC ICPMS      | E420   | 431773   | 2     | 31      | 6.4           | 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   |
|------------------------------------|--|--------|--------------------------|---|
| Total Metals in Water by CRC ICPMS | E420<br><br>Vancouver -<br>Environmental | Water  | EPA 200.2/6020B<br>(mod) | Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS.<br><br>Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. |



## QUALITY CONTROL REPORT

Work Order : **VA22A4602**

Page : 1 of 4

Client : Vancouver School Board  
Contact : Stephen Thomas  
Address : 1549 Clark Drive  
Vancouver BC Canada V5L 3L4  
Telephone : ----  
Project : Kerrisdale  
PO : ----  
C-O-C number : 20-985901  
Sampler : Robin LeMay  
Site : ----  
Quote number : ----  
No. of samples received : 8  
No. of samples analysed : 8

Laboratory : Vancouver - Environmental  
Account Manager : Tasnia Tarannum  
Address : 8081 Lougheed Highway  
Burnaby, British Columbia Canada V5A 1W9  
Telephone : +1 604 253 4188  
Date Samples Received : 04-Mar-2022 15:00  
Date Analysis Commenced : 14-Mar-2022  
Issue Date : 21-Mar-2022 15:53

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 Percentage Difference (RPD) and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits
- Reference Material (RM) Report; Recovery and Acceptance Limits
- Method Blank (MB) Report; Recovery and Acceptance Limits
- Laboratory Control Sample (LCS) Report; Recovery and Acceptance Limits

### 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 | Metals, Burnaby, British Columbia |
| Kim Jensen   | Department Manager - Metals             | Metals, 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 Services number is a unique identifier assigned to discrete substances.
- DQO = Data Quality Objective.
- LOR = Limit of Reporting (detection limit).
- RPD = Relative Percentage 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: **Water**

|                                      |                       |             |            |        | 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>Total Metals (QC Lot: 431773)</b> |                       |             |            |        |                                   |      |                 |                  |                      |                  |           |
| VA22A4484-013                        | Anonymous             | lead, total | 7439-92-1  | E420   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 431804)</b> |                       |             |            |        |                                   |      |                 |                  |                      |                  |           |
| VA22A4602-005                        | D.F Rm 001 Kerrisdale | lead, total | 7439-92-1  | E420   | 0.000050                          | mg/L | 0.00169         | 0.00171          | 0.893%               | 20%              | ----      |



### 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: **Water**

| Analyte                             | CAS Number | Method | LOR     | Unit | Result    | Qualifier |
|-------------------------------------|------------|--------|---------|------|-----------|-----------|
| <b>Total Metals (QCLot: 431773)</b> |            |        |         |      |           |           |
| lead, total                         | 7439-92-1  | E420   | 0.00005 | mg/L | <0.000050 | ----      |
| <b>Total Metals (QCLot: 431804)</b> |            |        |         |      |           |           |
| lead, total                         | 7439-92-1  | E420   | 0.00005 | mg/L | <0.000050 | ----      |

### 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: **Water**

|                                     |            |        |         |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|-------------------------------------|------------|--------|---------|------|--|--------------|---------------------|------|-----------|
|                                     |            |        |         |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                             | CAS Number | Method | LOR     | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Total Metals (QCLot: 431773)</b> |            |        |         |      |  |              |                     |      |           |
| lead, total                         | 7439-92-1  | E420   | 0.00005 | mg/L | 0.5 mg/L                               | 101          | 80.0                | 120  | ----      |
| <b>Total Metals (QCLot: 431804)</b> |            |        |         |      |  |              |                     |      |           |
| lead, total                         | 7439-92-1  | E420   | 0.00005 | mg/L | 0.5 mg/L                               | 107          | 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 the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

|                                     |                        |             |            |        | Matrix Spike (MS) Report |           |              |                     |      |           |
|-------------------------------------|------------------------|-------------|------------|--------|--------------------------|-----------|--------------|---------------------|------|-----------|
|                                     |                        |             |            |        | Spike                    |           | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID                | Client sample ID       | Analyte     | CAS Number | Method | Concentration            | Target    | MS           | Low                 | High | Qualifier |
| <b>Total Metals (QCLot: 431773)</b> |                        |             |            |        |                          |           |              |                     |      |           |
| VA22A4484-014                       | Anonymous              | lead, total | 7439-92-1  | E420   | 0.0191 mg/L              | 0.02 mg/L | 95.7         | 70.0                | 130  | ----      |
| <b>Total Metals (QCLot: 431804)</b> |                        |             |            |        |                          |           |              |                     |      |           |
| VA22A4602-006                       | D.F Rm. 005 Kerrisdale | lead, total | 7439-92-1  | E420   | 0.0194 mg/L              | 0.02 mg/L | 96.8         | 70.0                | 130  | ----      |





www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 985901

Page of

Contact and company name below will appear on the final report

Reports / Recipients

Turnaround Time (TAT) Requested

dd-mm-yy hh:mm am/pm

Report To: **Vancouver School Board**  
 Company: **Stephen Thomas**  
 Contact: **604 713 5637**  
 Phone: **Company address below will appear on the final report**  
 Street: **1549 Clark Drive**  
 City/Province: **Vancouver B.C.**  
 Postal Code: **V5L 3L4**

Select Report Format:  PDF  EXCEL  EOD (DIGITAL)  
 Merge OQ/CI Reports with COA  YES  NO  N/A  
 Compare Results to Criteria on Report - provide details below if box checked  
 Select Distribution:  EMAIL  MAIL  FAX  
 Email 1 or Fax: **stthomas@usb.bc.ca**  
 Email 2: **stthomas@usb.bc.ca**  
 Email 3: **clare@usb.bc.ca**

Routine (R) if received by 3pm M-F - no surcharges apply  
 4 day (P4) if received by 3pm M-F - 20% rush surcharge minimum  
 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum  
 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum  
 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum  
 Same day (E2) if received by 10am M-F - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests  
 Date and Time Required for all EBP TATs: \_\_\_\_\_  
 For all tests with rush TATs requested, please contact your AM to confirm availability.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Invoice To:  YES  NO  
 Copy of Invoice with Report:  YES  NO  
 Company: \_\_\_\_\_  
 Contact: \_\_\_\_\_

Select Invoice Distribution:  EMAIL  MAIL  FAX  
 Email 1 or Fax: \_\_\_\_\_  
 Email 2: \_\_\_\_\_

Oil and Gas Required Fields (client use)  
 AFE/Cost Center: \_\_\_\_\_ PO#: \_\_\_\_\_  
 Major/Minor Code: \_\_\_\_\_ Routing Code: \_\_\_\_\_  
 Requisitioner: \_\_\_\_\_  
 Location: \_\_\_\_\_

ALS Account # / Quote #: \_\_\_\_\_  
 Job #: **Kerrisdale**  
 PO / AFE: \_\_\_\_\_  
 LSD: \_\_\_\_\_

ALS Lab Work Order # (ALS use only): \_\_\_\_\_  
 ALS Contact: **T. Tarvainen**  
 Sampler: **R. Lenny**

NUMBER OF CONTAINERS  
 Lead  
 Indicate Filled (F), Preserved (P) or Filled and Preserved (FP) below  
 SAMPLES ON HOLD  
 EXTENDED STORAGE REQUIRED  
 SUSPECTED HAZARD (see notes)

| ALS Sample # (ALS use only) | Sample Identification and/or Coordinates (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type |
|-----------------------------|---|-----------------|--------------|-------------|
|                             | Boyle Filler Rm 208 Kerrisdale  | 04 03 22        | 7:54am       | water       |
|                             | D.F. Rm 212 Kerrisdale  | 04 03 22        | 7:56am       | water       |
|                             | D.F. Rm 111 Kerrisdale  | 04 03 22        | 7:59am       | water       |
|                             | Boyle Filler Rm 108 Kerrisdale  | 04 03 22        | 8:02am       | water       |
|                             | D.F. Rm 001 Kerrisdale  | 04 03 22        | 8:06am       | water       |
|                             | D.F. Rm 005 Kerrisdale  | 04 03 22        | 8:08am       | water       |
|                             | D.F. Rm 021 Kerrisdale  | 04 03 22        | 8:11am       | water       |
|                             | D.F. Frame Building Kerrisdale  | 04 03 22        | 8:16am       | water       |

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

Drinking Water (DW) Samples (client use)  
 Are samples taken from a Regulated DW System?  YES  NO  
 Are samples for human consumption/ use?  YES  NO

SHIPPING RELEASE (client use)  
 Released by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

INITIAL SHIPMENT RECEPTION (ALS use only)  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_

WHITE - LABORATORY COPY  
 YELLOW - CLIENT COPY

Environmental Division  
 Vancouver  
 Work Order Reference  
**VA22A4602**  
 Telephone: +1 604 253 4188

COOLING METHOD:  NONE  ICE PACKS  FROZEN  COOLING/INITIATED

Submission Comments Identified on Sample Receipt Notification:  YES  NO

Cooler Custody Seals Intact:  YES  N/A Sample Custody Seals Intact:  YES  N/A

INITIAL COOLER TEMPERATURES °C: \_\_\_\_\_ FINAL COOLER TEMPERATURES °C: \_\_\_\_\_

Final Shipment Reception (ALS use only)  
 Released by: **HLN** Date: **3/4** Time: \_\_\_\_\_

ALS 2007/01/01

| <b>Results Summary VA22A4602</b>    |  |       |                                    |                       |                       |                                    |                       |                           |                           |                                  |
|-------------------------------------|--|-------|------------------------------------|-----------------------|-----------------------|------------------------------------|-----------------------|---------------------------|---------------------------|----------------------------------|
| <b>Project</b>                      | Kerrisdale                             |       |                                    |                       |                       |                                    |                       |                           |                           |                                  |
| <b>Report To</b>                    | Stephen Thomas, Vancouver School Board |       |                                    |                       |                       |                                    |                       |                           |                           |                                  |
| <b>Date Received</b>                | 04-Mar-2022 15:00                      |       |                                    |                       |                       |                                    |                       |                           |                           |                                  |
| <b>Issue Date</b>                   | 21-Mar-2022 15:53                      |       |                                    |                       |                       |                                    |                       |                           |                           |                                  |
| <b>Amendment</b>                    | 0                                      |       |                                    |                       |                       |                                    |                       |                           |                           |                                  |
| <b>Client Sample ID</b>             |  |       | Bottle Filler Rm 208<br>Kerrisdale | D.F Rm 212 Kerrisdale | D.F Rm 111 Kerrisdale | Bottle Filler Rm 108<br>Kerrisdale | D.F Rm 001 Kerrisdale | D.F Rm. 005<br>Kerrisdale | D.F Rm. 021<br>Kerrisdale | D.F Frame Building<br>Kerrisdale |
| <b>Date Sampled</b>                 |  |       | 04-Mar-2022                        | 04-Mar-2022           | 04-Mar-2022           | 04-Mar-2022                        | 04-Mar-2022           | 04-Mar-2022               | 04-Mar-2022               | 04-Mar-2022                      |
| <b>Time Sampled</b>                 |  |       | 07:54                              | 07:56                 | 07:59                 | 08:02                              | 08:06                 | 08:08                     | 08:11                     | 08:16                            |
| <b>ALS Sample ID</b>                |  |       | VA22A4602-001                      | VA22A4602-002         | VA22A4602-003         | VA22A4602-004                      | VA22A4602-005         | VA22A4602-006             | VA22A4602-007             | VA22A4602-008                    |
| <b>Analyte</b>                      | Lowest<br>Detection Limit              | Units | Sub-Matrix:<br>Water               | Sub-Matrix:<br>Water  | Sub-Matrix:<br>Water  | Sub-Matrix:<br>Water               | Sub-Matrix:<br>Water  | Sub-Matrix:<br>Water      | Sub-Matrix:<br>Water      | Sub-Matrix:<br>Water             |
| <b>Total Metals (Matrix: Water)</b> |  |       |                                    |                       |                       |                                    |                       |                           |                           |                                  |
| lead, total                         | 0.000050                               | mg/L  | <0.000050                          | 0.00137               | 0.00134               | <0.000050                          | 0.00169               | 0.000233                  | 0.0376                    | 0.00194                          |