

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

| Work Order | : VA22A4174 | Page | : 1 of 3 |
|-------------------------|-----------------------------|-------------------------|--|
| Client | : Vancouver School Board | Laboratory | : Vancouver - Environmental |
| Contact | : Stephen Thomas | Account Manager | ː Tasnia Tarannum |
| Address | : 1549 Clark Drive | Address | : 8081 Lougheed Highway |
| | Vancouver BC Canada V5L 3L4 | | Burnaby, British Columbia Canada V5A 1W9 |
| Telephone | : | Telephone | : +1 604 253 4188 |
| Project | : | Date Samples Received | : 01-Mar-2022 14:40 |
| PO | : | Date Analysis Commenced | : 09-Mar-2022 |
| C-O-C number | : 20-986712 | Issue Date | : 14-Mar-2022 10:32 |
| Sampler | : Robin LeMay | | |
| Site | : | | |
| Quote number | : | | |
| No. of samples received | : 5 | | |
| No. of samples analysed | : 5 | | |

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.

| Signatories | Position | Laboratory Department |
|--------------|---|-----------------------------------|
| Kevin Duarte | Supervisor - Metals ICP Instrumentation | 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.

| Page Work Order Client Project | : 3 of 3 : VA22A4174 : Vancouver School Board : | | | | | | | ALS | |
|---|--|-----------|------|-------------|---------|--|--|-----|--|
| | | | | No Breaches | s Found | | | | |
| lead, total | | 7439-92-1 | mg/L | | | | | | |



QUALITY CONTROL INTERPRETIVE REPORT

| Work Order | : VA22A4174 | Page | : 1 of 5 |
|-------------------------|-----------------------------|-----------------------|--|
| Client | : Vancouver School Board | Laboratory | : Vancouver - Environmental |
| Contact | : Stephen Thomas | Account Manager | : Tasnia Tarannum |
| Address | : 1549 Clark Drive | Address | : 8081 Lougheed Highway |
| | Vancouver BC Canada V5L 3L4 | | Burnaby, British Columbia Canada V5A 1W9 |
| Telephone | : | Telephone | +1 604 253 4188 |
| Project | : | Date Samples Received | : 01-Mar-2022 14:40 |
| 20 | : | Issue Date | : 14-Mar-2022 10:32 |
| C-O-C number | : 20-986712 | | |
| ampler | : Robin LeMay | | |
| Site | : | | |
| Quote number | : | | |
| lo. of samples received | : 5 | | |
| No. of samples analysed | : 5 | | |
| | | | |

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.
- <u>No</u> 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

• <u>No</u> 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 | | | | | Eva | aluation: × = | Holding time excee | dance ; • | = Within | Holding Tin |
|---|--------|---------------|---------------------|---------------|-----------------|---------------|--------------------|---------------|----------|-------------|
| Analyte Group | Method | Sampling Date | Ex | traction / Pr | reparation | | | Analys | sis | |
| Container / Client Sample ID(s) | | | Preparation Holding | | ling Times Eval | | al Analysis Date | Holding Times | | Eval |
| | | | Date | Rec | Actual | | | Rec | Actual | |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - total (lab preserved) | | | | | | | | | | |
| Bottle Filter Rm 010 Strathcona | E420 | 01-Mar-2022 | | | | | 09-Mar-2022 | 180 days | 8 days | 4 |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - total (lab preserved) | | | | | | | | | | |
| Bottle Filter Rm 028 Strathcona | E420 | 01-Mar-2022 | | | | | 09-Mar-2022 | 180 days | 8 days | * |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | · · · | |
| HDPE - total (lab preserved) | | | | | | | | | | |
| Bottle Filter Rm 113 Strathcona | E420 | 01-Mar-2022 | | | | | 09-Mar-2022 | 180 days | 8 days | * |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - total (lab preserved) | | | | | | | | | | |
| D.F Rm 004 Strathcona | E420 | 01-Mar-2022 | | | | | 09-Mar-2022 | 180 days | 8 days | ~ |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - total (lab preserved) | | | | | | | | | | |
| D.F Rm 301 Strathcona | E420 | 01-Mar-2022 | | | | | 09-Mar-2022 | 180 days | 8 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 | | Evaluatio | n: × = QC frequ | ency outside spe | ecification; 🗸 = (| QC frequency wit | hin specification | |
|------------------------------------|--------|-----------|-----------------|------------------|--------------------|------------------|-------------------|--|
| Quality Control Sample Type | | | C | ount | Frequency (%) | | | |
| Analytical Methods | Method | QC Lot # | QC | Regular | Actual | Expected | Evaluation | |
| Laboratory Duplicates (DUP) | | | | | | | | |
| Total Metals in Water by CRC ICPMS | E420 | 427305 | 1 | 7 | 14.2 | 5.0 | ~ | |
| Laboratory Control Samples (LCS) | | | | | | | | |
| Total Metals in Water by CRC ICPMS | E420 | 427305 | 1 | 7 | 14.2 | 5.0 | ~ | |
| Method Blanks (MB) | | | | | | | | |
| Total Metals in Water by CRC ICPMS | E420 | 427305 | 1 | 7 | 14.2 | 5.0 | 1 | |
| Matrix Spikes (MS) | | | | | | | | |
| Total Metals in Water by CRC ICPMS | E420 | 427305 | 1 | 7 | 14.2 | 5.0 | 1 | |



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 Vancouver - Environmental | Water | EPA 200.2/6020B (mod) | Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered |
| | | | | by this method. |



QUALITY CONTROL REPORT

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| Contact | : Stephen Thomas | Account Manager | : Tasnia Tarannum |
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| PO | | Date Analysis Commenced | :09-Mar-2022 |
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| Sampler | : Robin LeMay | | |
| Site | : | | |
| Quote number | : | | |
| No. of samples received | : 5 | | |
| No. of samples analysed | : 5 | | |

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 |



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 |
| Total Metals (QC Lo | ot: 427305) | | | | | | | | | | |
| VA22A4494-011 | Anonymous | lead, total | 7439-92-1 | E420 | 0.000100 | mg/L | <0.000100 | <0.000100 | 0 | Diff <2x LOR | |

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 |
|------------------------------|-------------|--------|---------|------|-----------|-----------|
| Total Metals (QCLot: 427305) | | | | | | |
| lead, total | 7439-92-1 I | 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 | | | | | |
|------------------------------|------------|--------|---------|------|--|--------------|----------|--------------|-----------|--|
| | | | | | | Recovery (%) | Recovery | ' Limits (%) | | |
| Analyte | CAS Number | Method | LOR | Unit | Concentration | LCS | Low | High | Qualifier | |
| Total Metals (QCLot: 427305) | | | | | | | | | | |
| lead, total | 7439-92-1 | E420 | 0.00005 | mg/L | 0.5 mg/L | 100 | 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 Spik | e (MS) Report | | |
|-------------------------|------------------|-------------|------------|--------|---------------|-----------|--------------|---------------|------------|-----------|
| | | | | | Spi | ke | Recovery (%) | Recovery | Limits (%) | |
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Concentration | Target | MS | Low | High | Qualifier |
| Total Metals (QCI | Lot: 427305) | | | | | | | | | |
| VA22A4494-016 | Anonymous | lead, total | 7439-92-1 | E420 | 0.0376 mg/L | 0.04 mg/L | 94.0 | 70.0 | 130 | |

COC Number: 20 - 986712



Canada Toll Free: 1 800 668 9878

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Page of

| Report To | Contact and company name below will appear on the final n | report | | Reports / R | ecipients | | | | Turnaro | ound Tir | ne (TAT) | Reques | ted | | ~ | | C ga | | 1 | , |
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| Contact: | Stephen Thomas | | Merge QC/QC | I Reports with COA | YES 🗌 NO | □ N/A | .⊓ 4 | day [P4] if r | received by | y 3pm - M- | F-20% rı | ish surch | arge mini | mum | | | jer opr | | | 195 |
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| Street: | 1549 Clark Drive | E | Email 1 or Fax | ssthomas @ | usb.be. | ia | _ | ime day (E2) ay apply to n | | | | | - | | fees | Ø 3 | | M | ent List | |
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| Contact: | | E | Email 2 | | | | CONTAINERS | | | | | | | | | | | | REQUIRED | ğ |
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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy. 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

| Work Order | : VA22A4431 | Page | : 1 of 3 |
|-------------------------|---|-------------------------|---|
| Client | : Vancouver School Board | Laboratory | : Vancouver - Environmental |
| Contact | : Stephen Thomas | Account Manager | ː Tasnia Tarannum |
| Address | : 1549 Clark Drive Vancouver BC Canada V5L 3L4 | Address | 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9 |
| Telephone | : | Telephone | : +1 604 253 4188 |
| Project | : Strathcona | Date Samples Received | : 03-Mar-2022 14:52 |
| PO | : | Date Analysis Commenced | : 06-Mar-2022 |
| C-O-C number | : 20-986559 | Issue Date | : 14-Mar-2022 10:43 |
| Sampler | : | | |
| Site | : | | |
| Quote number | : | | |
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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.

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|----------------|------------------------|--------------------------|
| Dwayne Bennett | Supervisor - Inorganic | Metals, Calgary, Alberta |



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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.

| Page Work Order Client Project | 3 of 3 VA22A4431 Vancouver School Board Strathcona | | | | | | | ALS) | |
|---|---|-----------|------|-------------|------|--|--|------|--|
| | | | No | Breaches Fo | ound | | | | |
| lead, total | | 7439-92-1 | mg/L | | | | | | |



QUALITY CONTROL INTERPRETIVE REPORT

| Work Order | : VA22A4431 | Page | : 1 of 5 |
|-------------------------|-----------------------------|-----------------------|--|
| Client | : Vancouver School Board | Laboratory | : Vancouver - Environmental |
| Contact | : Stephen Thomas | Account Manager | : Tasnia Tarannum |
| Address | : 1549 Clark Drive | Address | : 8081 Lougheed Highway |
| | Vancouver BC Canada V5L 3L4 | | Burnaby, British Columbia Canada V5A 1W9 |
| Telephone | : | Telephone | : +1 604 253 4188 |
| Project | : Strathcona | Date Samples Received | : 03-Mar-2022 14:52 |
| 20 | : | Issue Date | : 14-Mar-2022 10:44 |
| C-O-C number | : 20-986559 | | |
| Sampler | : | | |
| Site | : | | |
| Quote number | : | | |
| lo. of samples received | :1 | | |
| No. of samples analysed | :1 | | |
| | | | |

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.
- <u>No</u> 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

• <u>No</u> 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 | Method Sampling Date Extraction / Preparation Analysis | | | | | | | | | |
| Container / Client Sample ID(s) | | | Preparation | Holding | g Times | Eval | Analysis Date | Holdin | g Times | Eval |
| | | | Date | Rec | Actual | | | Rec | Actual | |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - total (lab preserved) | | | | | | | | | | |
| Bottle Filler Rm. E113 Strathcona | E420 | 03-Mar-2022 | | | | | 07-Mar-2022 | 180 | 4 days | 1 |
| | | | | | | | | 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 | n: × = QC freque | ency outside spe | ecification; ✓ = 0 | QC frequency wit | hin specification |
|------------------------------------|--------|------------|------------------|------------------|--------------------|------------------|-------------------|
| Quality Control Sample Type | | | Co | ount | | Frequency (%) | |
| Analytical Methods | Method | QC Lot # | QC | Regular | Actual | Expected | Evaluation |
| Laboratory Duplicates (DUP) | | | | | | | |
| Total Metals in Water by CRC ICPMS | E420 | 425647 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Laboratory Control Samples (LCS) | | | | | | | |
| Total Metals in Water by CRC ICPMS | E420 | 425647 | 1 | 20 | 5.0 | 5.0 | 1 |
| Method Blanks (MB) | | | | | | | |
| Total Metals in Water by CRC ICPMS | E420 | 425647 | 1 | 20 | 5.0 | 5.0 | 1 |
| Matrix Spikes (MS) | | | | | | | |
| Total Metals in Water by CRC ICPMS | E420 | 425647 | 1 | 20 | 5.0 | 5.0 | 1 |



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 Calgary - Environmental | Water | EPA 200.2/6020B (mod) | Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. |
| | | | | Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. |



QUALITY CONTROL REPORT

| Work Order | ·VA22A4431 | Page | : 1 of 3 |
|-------------------------|-----------------------------|-------------------------|--|
| Client | : Vancouver School Board | Laboratory | :Vancouver - Environmental |
| Contact | : Stephen Thomas | Account Manager | : Tasnia Tarannum |
| Address | : 1549 Clark Drive | Address | :8081 Lougheed Highway |
| Telephone | Vancouver BC Canada V5L 3L4 | Telephone | Burnaby, British Columbia Canada V5A 1W9 :+1 604 253 4188 |
| Project | : Strathcona | Date Samples Received | :03-Mar-2022 14:52 |
| PO | : | Date Analysis Commenced | :06-Mar-2022 |
| C-O-C number | : 20-986559 | Issue Date | : 14-Mar-2022 10:43 |
| Sampler | : | | |
| Site | : | | |
| Quote number | : | | |
| No. of samples received | : 1 | | |
| No. of samples analysed | :1 | | |

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 |
|----------------|------------------------|--------------------------|
| Dwayne Bennett | Supervisor - Inorganic | Metals, Calgary, Alberta |



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 | | | | | | | Labora | tory Duplicate (DU | JP) Report | | |
|----------------------|------------------|-------------|------------|--------|----------|------|--------------------|---------------------|-------------------------|---------------------|-----------|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Total Metals (QC Lo | ot: 425647) | | | | | | | | | | |
| VA22A4418-017 | Anonymous | lead, total | 7439-92-1 | E420 | 0.000050 | mg/L | 0.000062 | 0.000063 | 0.000001 | Diff <2x LOR | |

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 Meth | thod | LOR | Unit | Result | Qualifier |
|------------------------------|-----------------|------|---------|------|-----------|-----------|
| Total Metals (QCLot: 425647) | | | | | | |
| lead, total | 7439-92-1 E420 | 20 | 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 Co | ntrol Sample (LCS) | Report | |
|------------------------------|------------|--------|---------|------|---------------|---------------|--------------------|------------|-----------|
| | | | | | Spike | Recovery (%) | Recovery | Limits (%) | |
| Analyte | CAS Number | Method | LOR | Unit | Concentration | LCS | Low | High | Qualifier |
| Total Metals (QCLot: 425647) | | | | | | | | | |
| lead, total | 7439-92-1 | E420 | 0.00005 | mg/L | 0.5 mg/L | 102 | 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 Spik | e (MS) Report | | |
|-------------------------|------------------|-------------|------------|--------|---------------|----------|--------------|---------------|------------|-----------|
| | | | | | Spi | ke | Recovery (%) | Recovery | Limits (%) | |
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Concentration | Target | MS | Low | High | Qualifier |
| Total Metals (QCI | Lot: 425647) | | | | | | | | | |
| VA22A4418-018 | Anonymous | lead, total | 7439-92-1 | E420 | 0.207 mg/L | 0.2 mg/L | 104 | 70.0 | 130 | |

| | | A - CLIENT COPY back page of the white - report copy. | WHITE - LABORATORY COPY YELLOW with the Terms and Conditions as specified on the ba | TEER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY AND THE COPY AND | APLING INFORMATION | EFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION allore to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY | ailure to complete a |
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| | (ALS use only) 👘 😽 🗮 | SAMPLE RECEIPTOETAILS (ALS use only) | m drop-down below | Notes / Specify Limits for result evaluation by selecting from drop-down below | | n Water (NW) Samples ¹ (client nee) | |
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| ENDED | APLE: | | Sampler: R. Lenary | ALS Contact: T. TAYAMON Sar | | k Order # (ALS use or | ALS Lab Wo |
| | | | | Location: | | | SD: |
| | | | | Requisitioner: | | | PO / AFE: |
| | | | Routing Code: | | | Strathcona | lob #: |
| | LD | | | AFE/Cost Center: PO# | | | LS Account #/ Quote # |
| | | | | Oil and Gas Required Fields (client use) | on | Project Information | - |
| _ | | | | Email 2 | | | company. |
| | Telephone : +1 604 253 4168 | | MAIL C FAX | Select Invoice Distribution: | DX YES I NO | Capy of Invoice with Report [| |
| | | For all tests with rush TAT's requested, please cont | ents | Invoice Recipients | NA VES D NO | Same as Report To | nvoice To |
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| | | may apply to rush requests on weekends, statutory holicays and non-routin | be we | leman @ | Ć. | wer B. | City/Province: |
| | | | @ usb.bc.ca | Email 1 or Fax 55thomas @ | Drive | 1549 clark | Street |
| | | 1 day [F2] if received by 3pm M-F - 50% rush surcharge minimum | | Select Distribution: 🛱 EWAIL | ron the final report | Company address below will appear on the final report | |
| | | 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum | * | R | | 6041 713-5637 | hone: |
| 2 | VA22A4431 | | N N N N N N | orts with COA | Ŷ | stephen Thoma | Contact: |
| | Work Order Reference | Routine [R] if received by 3pm M-F - no surcharges apply | EDD (DIGITAL) | Select Report Format: | nl Broad | Vancoures School | Company: |
| | Vancouver | Turnaround Time (TAT) Requested | vients | Reports / Recipients | Contact and company name below will appear on the final report | Contact and company name bek | Report To |
| on | Environmental Division | | • | | | www.alsglobal.com | ALS) |
| | 5 | Page | : 1 800 668 9878 | Canada Toll Free: 1 800 668 9878 | • • | | F |
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Chain of Custody (COC) / Analytical Request Form

÷ 12.

coc Number: 20 - 986559

| Results Summary VA2 | 22A4174 | | | | | | |
|------------------------------|---------------------------|---------------|------------------------------------|------------------------------------|------------------------------------|--------------------------|--------------------------|
| | | | | | | | |
| Project | | | | | | | |
| Report To | Stephen Thomas, Vanco | uver School E | Board | | | | |
| Date Received | 01-Mar-2022 14:40 | | | | | | |
| Issue Date | 14-Mar-2022 10:33 | | | | | | |
| Amendment | 0 | | | | | | |
| Client Sample ID | | | Bottle Filter Rm 113 Strathcona | Bottle Filter Rm 010 Strathcona | Bottle Filter Rm 028 Strathcona | D.F Rm 004 Strathcona | D.F Rm 301 Strathcona |
| Date Sampled | | | 01-Mar-2022 | 01-Mar-2022 | 01-Mar-2022 | 01-Mar-2022 | 01-Mar-2022 |
| Time Sampled | | | 07:12 | 07:17 | 07:24 | 07:29 | 07:37 |
| ALS Sample ID | | | VA22A4174-001 | VA22A4174-002 | VA22A4174-003 | VA22A4174-004 | VA22A4174-005 |
| Analyte | Lowest Detection Limit | Units | Sub-Matrix: Water | Sub-Matrix: Water | Sub-Matrix: Water | Sub-Matrix: Water | Sub-Matrix: Water |
| Total Metals (Matrix: Water) | | | | | | | |
| lead, total | 0.000050 | mg/L | <0.000050 | 0.000060 | 0.000813 | 0.00348 | 0.00233 |

Results Summary VA22A4431

| Project | Strathcona | | | | | | |
|--|--|-------|---|--|--|--|--|
| Report To | Stephen Thomas, Vancouver School Board | | | | | | |
| Date Received | 03-Mar-2022 14:52 | | | | | | |
| Issue Date | 14-Mar-2022 10:44 | | | | | | |
| Amendment | 0 | | | | | | |
| Client Sample ID Date Sampled Time Sampled ALS Sample ID Analyte | Lowest Detection Limit | Units | Bottle Filler Rm. E113 Strathcona 03-Mar-2022 08:46 VA22A4431-001 Sub-Matrix: Water | | | | |
| Total Metals (Matrix: Water) lead, total | 0.000050 | mg/L | 0.000356 | | | | |