



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

<p>Work Order : VA22D0774</p> <p>Client : Vancouver School Board</p> <p>Contact : Stephen Thomas</p> <p>Address : 1549 Clark Drive Vancouver BC Canada V5L 3L4</p> <p>Telephone : ----</p> <p>Project : Killarney Secondary</p> <p>PO : ----</p> <p>C-O-C number : 20-1039086/085</p> <p>Sampler : RL</p> <p>Site : ----</p> <p>Quote number : ----</p> <p>No. of samples received : 21</p> <p>No. of samples analysed : 21</p>	<p>Page : 1 of 3</p> <p>Laboratory : Vancouver - Environmental</p> <p>Account Manager : Tasnia Tarannum</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 21-Dec-2022 14:55</p> <p>Date Analysis Commenced : 24-Dec-2022</p> <p>Issue Date : 29-Dec-2022 11:40</p>
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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.

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>
Robin Weeks	Team Leader - Metals	Metals, Burnaby, British Columbia



No Breaches Found

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).

<i>Unit</i>	<i>Description</i>
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.

lead, total	7439-92-1	mg/L						
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QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA22D0774</p> <p>Client : Vancouver School Board</p> <p>Contact : Stephen Thomas</p> <p>Address : 1549 Clark Drive Vancouver BC Canada V5L 3L4</p> <p>Telephone : ----</p> <p>Project : Killarney Secondary</p> <p>PO : ----</p> <p>C-O-C number : 20-1039086/085</p> <p>Sampler : RL</p> <p>Site : ----</p> <p>Quote number : ----</p> <p>No. of samples received : 21</p> <p>No. of samples analysed : 21</p>	<p>Page : 1 of 7</p> <p>Laboratory : Vancouver - Environmental</p> <p>Account Manager : Tasnia Tarannum</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 21-Dec-2022 14:55</p> <p>Issue Date : 29-Dec-2022 11:41</p>
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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 Service 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 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	
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Boys Change Rm. C110 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. A105 Rm. A112 D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. A124 Rm. A120 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. A132 bRm. A130 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. A222 Rm. A202 D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. A222 Rm. A208 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. A225 Rm. A227 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓



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

Analyte Group 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		
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. A319 Rm. A302 D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. A319 Rm. A308 D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. A319 Rm. A318 Bottle Filler	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. A325 Rm. A327 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. B116 Rm. B103 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. B116 Rm. B111 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. B200 Rm. B202 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. B200 Rm. B212 D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. C121 Rm. C101d Bottle Filler	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✔	



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

Analyte Group 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		
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. D117 Rm. D120 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Girls Change Rm C125 D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Girls Change Rm. C111 S.S.D.F.	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Rm. C107 Bubbler	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 days	✓	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Rm. D123 Bubbler	E420	21-Dec-2022	24-Dec-2022	----	----		28-Dec-2022	180 days	7 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 (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Total metals in Water by CRC ICPMS	E420	786794	2	31	6.4	5.0	✔
Laboratory Control Samples (LCS)							
Total metals in Water by CRC ICPMS	E420	786794	2	31	6.4	5.0	✔
Method Blanks (MB)							
Total metals in Water by CRC ICPMS	E420	786794	2	31	6.4	5.0	✔
Matrix Spikes (MS)							
Total metals in Water by CRC ICPMS	E420	786794	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 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

<p>Work Order : VA22D0774</p> <p>Client : Vancouver School Board</p> <p>Contact : Stephen Thomas</p> <p>Address : 1549 Clark Drive Vancouver BC Canada V5L 3L4</p> <p>Telephone :</p> <p>Project : Killarney Secondary</p> <p>PO : ----</p> <p>C-O-C number : 20-1039086/085</p> <p>Sampler : RL ----</p> <p>Site : ----</p> <p>Quote number : ----</p> <p>No. of samples received : 21</p> <p>No. of samples analysed : 21</p>	<p>Page : 1 of 4</p> <p>Laboratory : Vancouver - Environmental</p> <p>Account Manager : Tasnia Tarannum</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 21-Dec-2022 14:55</p> <p>Date Analysis Commenced : 24-Dec-2022</p> <p>Issue Date : 29-Dec-2022 11:41</p>
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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.

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
- 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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Robin Weeks	Team Leader - Metals	Vancouver 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 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: **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 Lot: 786794)											
VA22D0774-001	Corr. C121 Rm. C101d Bottle Filler	lead, total	7439-92-1	E420	0.000050	mg/L	0.000108	0.000105	0.000003	Diff <2x LOR	----
Total Metals (QC Lot: 786796)											
YL2202122-001	Anonymous	lead, total	7439-92-1	E420	0.000050	mg/L	0.000176	0.000179	0.000003	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: 786794)						
lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Total Metals (QCLot: 786796)						
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
Total Metals (QCLot: 786794)									
lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	99.9	80.0	120	----
Total Metals (QCLot: 786796)									
lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	103	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 $\geq 1x$ 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
Total Metals (QCLot: 786794)										
VA22D0774-002	Girls Change Rm C125 D.F.	lead, total	7439-92-1	E420	0.0190 mg/L	0.02 mg/L	95.0	70.0	130	----
Total Metals (QCLot: 786796)										
YL2202122-002	Anonymous	lead, total	7439-92-1	E420	0.0185 mg/L	0.02 mg/L	92.3	70.0	130	----





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Canada Toll Free: 1-800-668-9878

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Chain of Custody (COC) / Analytical Request Form

COC Number: 20-1039086

Report To: **Vancouver School Board**
 Company: **Stephen Thomas**
 Contact: **604 773 5637**
 Phone: **Company address below will appear on the final report**
 Street: **1549 Clark Drive**
 City/Province: **Vancouver B.C.**
 Postal Code: **Same as Report To**
 Invoice To: **Copy of Invoice with Report**
 Company: **Project Information:**
 Contact: **ALS Account # / Quote #**
 Job #: **Kilgarney Secondary**
 PO/AEE: **ALS Lab Work Order # (ALS use only): 774**
 LSD: **ALS Contact: T. Paramuvu**
 Select Report Format: PDF EXCEL EVD (DIGITAL)
 Merge QO/QCI Reports with COA YES NO N/A
 Compare Results to Client's Report: provide details below if box checked
 Select Distribution: EMAIL MAIL FAX
 Email 1 or Fax: **stthomas@us6.bc.ca**
 Email 2: **tparrell@us6.bc.ca**
 Email 3: **jsuung@us6.bc.ca**
 Select Invoice Distribution: EMAIL MAIL FAX
 Email 1 or Fax: **Oil and Gas Required Fields (client use)**
 Email 2: **AP/ECost Center**
 AP/ECost Center: **PO#**
 Major/Minor Code: **Routing Code:**
 Requisitioner: **Location:**

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	ALS Lab Work Order # (ALS use only)	ALS Contact: T. Paramuvu	Sampler: R. Lenay
	Corr. C121 Km. C101d	21-12-22	8:50am	water			
	Girls Change Km. C125	21-12-22	8:55am	water			
	Rm. C10f	21-12-22	8:59am	water			
	Boys Change Km. C110	21-12-22	9:05	water			
	Girls Change Km. C111	21-12-22	9:09	water			
	Corr. B116 Km. B103	21-12-22	9:15am	water			
	Corr. B116 Km. B111	21-12-22	9:18am	water			
	Corr. B200 Km. B212	21-12-22	9:23	water			
	Corr. B200 Km. B202	21-12-22	9:29	water			
	Corr. A225 Km. A227	21-12-22	9:35	water			
	Corr. A325 Km. A327	21-12-22	9:39	water			
	Corr. A319 Km. A318	21-12-22	9:43	water			

Drinking Water (DW) Samples (client use)
 Are samples taken from a Regulated DW System? YES NO
 Are samples for human consumption/ use? YES NO
 No preservatives added
 Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
 SHIPMENT RELEASE (client use)
 Released by: **SC** Date: **21 Dec 22** Time: **1455**
 INITIAL SHIPMENT RECEPTION (ALS use only)
 Received by: **SC** Date: **21 Dec 22** Time: **1455**
 FINAL SHIPMENT RECEPTION (ALS use only)
 Received by: **SC** Date: **21 Dec 22** Time: **1455**

Environmental Division
 Vancouver
 Work Order Reference
VA22B0774
 Telephone: +1 804 253 4188
 Turnaround Time (TAT) Requested:
 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 [P1] If received by 3pm M-F - 100% rush surcharge minimum
 Same day [E] If received by 10am M-F - 200% rush surcharge. Additional fees may apply for rush requests on weekends, statutory holidays and non-routine tests.
 Date and Time Required for all E&P TATS:
 For all tests with rush TATs requested, please contact your Analysts Request.
 Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP).
 NUMBER OF CONTAINERS: **Lead**
 SAMPLES ON HOLD
 EXTENDED STORAGE RE
 SUSPECTED HAZARD (se

REFUSE TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all portions of this form may delay analysis. Please fill in the 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.

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

ALS 2007/08/01



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1-800-668-9878

COC Number: 20-1039085

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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: [blank]
 Invoice To: Same as Report To YES NO
 Copy of Invoice with Report YES NO
 Company: [blank]
 Contact: [blank]
 Project Information: [blank]
 ALS Account # / Quote #: [blank]
 Job #: Kilarny Secondary
 PO / A/E: [blank]
 LSD: [blank]
 ALS Lab Work Order # (ALS use only): [blank]
 ALS Contact: T. Taranvum
 Sampler: R. Lemay
 Reports / Recipients: PDF EXCEL EDD (DIGITAL)
 Merge QC/QCI Reports with COA YES NO N/A
 Select Distribution: EMAIL MAIL FAX
 Email 1 or Fax: sthomas@usb.bc.ca
 Email 2: jdvung@usb.bc.ca
 Invoice Recipients: [blank]
 Select Invoice Distribution: EMAIL MAIL FAX
 Email 1 or Fax: [blank]
 Oil and Gas Required Fields (client use): [blank]
 A/E/Cost Center: [blank]
 Map/Job/Order Code: [blank]
 Requisitioner: [blank]
 Location: [blank]
 Date: 21-12-22
 Time: 9:47am
 Sample Type: water
 Date: 21-12-22
 Time: 9:58am
 Sample Type: water
 Date: 21-12-22
 Time: 9:55am
 Sample Type: water
 Date: 21-12-22
 Time: 10:00am
 Sample Type: water
 Date: 21-12-22
 Time: 10:05am
 Sample Type: water
 Date: 21-12-22
 Time: 10:08am
 Sample Type: water
 Date: 21-12-22
 Time: 10:11am
 Sample Type: water
 Date: 21-12-22
 Time: 10:16am
 Sample Type: water
 Date: 21-12-22
 Time: 10:20am
 Sample Type: water
 Drinking Water (DW) Samples (client use): [blank]
 Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only): No preservatives added
 Cooling Method: [blank]
 Submission Comments identified on Sample Receipt Notification: [blank]
 Cooler Custody Seals Intact: [blank]
 Initial Cooler Temperatures: [blank]
 Final Cooler Temperatures: [blank]
 Shipping Method: [blank]
 Shipping Release (client use): [blank]
 Date: [blank]
 Received by: [blank]
 Initial Shipment Reception (ALS use only): [blank]
 Date: [blank]
 Received by: [blank]
 Final Shipment Reception (ALS use only): [blank]
 Date: 2/20/22
 Received by: [blank]
 Time: 1455

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.



Results Summary VA22D0774

Project Killarney Secondary
Report To Stephen Thomas, Vancouver School Board
Date Received 21-Dec-2022 14:55
Issue Date 29-Dec-2022 11:40
Amendment 0

Client Sample ID	Corr. C121 Rm. C101d Bottle Filler	Girls Change Rm C125 D.F.	Rm. C107 Bubblers	Boys Change Rm. C110 S.S.D.F.	Girls Change Rm. C111 S.S.D.F.	Corr. B116 Rm. B103 S.S.D.F.	Corr. B116 Rm. B111 S.S.D.F.	Corr. B208 Rm. B212 D.F.	Corr. B200 Rm. B202 S.S.D.F.	Corr. A225 Rm. A227 S.S.D.F.	Corr. A326 Rm. A327 S.S.D.F.	Corr. A319 Rm. A318 Bottle Filler	Corr. A319 Rm. A302 D.F.	Corr. A222 Rm. A202 D.F.	Corr. A222 Rm. A208 S.S.D.F.	Corr. A319 Rm. A308 D.F.	Corr. A105 Rm. A112 D.F.	Corr. D117 Rm. D120 S.S.D.F.	Rm. D123 Bubblers	Corr. A124 Rm. A120 S.S.D.F.	Corr. A132 bRm. A130 S.S.D.F.		
Date Sampled	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	21-Dec-2022	
Time Sampled	08:50	08:53	08:59	09:05	09:09	09:15	09:18	09:23	09:29	09:35	09:39	09:43	09:47	09:52	09:55	10:00	10:05	10:08	10:11	10:16	10:20		
ALS Sample ID	VA22D0774-001	VA22D0774-002	VA22D0774-003	VA22D0774-004	VA22D0774-005	VA22D0774-006	VA22D0774-007	VA22D0774-008	VA22D0774-009	VA22D0774-010	VA22D0774-011	VA22D0774-012	VA22D0774-013	VA22D0774-014	VA22D0774-015	VA22D0774-016	VA22D0774-017	VA22D0774-018	VA22D0774-019	VA22D0774-020	VA22D0774-021		
Analyte	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	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	0.000108	0.00246	0.00202	0.00126	0.000672	0.000244	0.0106	0.000980	0.000399	0.000422	0.000120	0.000306	0.00212	0.00204	0.00350	0.00447	0.000902	0.00912	0.00729	0.00183	0.000080