



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

<p>Work Order : VA22C8848</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 : Sir Winston Churchill Secondary</p> <p>PO : ----</p> <p>C-O-C number : 20-1038013 & 20-1017025</p> <p>Sampler : R. Lemay</p> <p>Site : ----</p> <p>Quote number : ----</p> <p>No. of samples received : 19</p> <p>No. of samples analysed : 19</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 : 25-Nov-2022 14:55</p> <p>Date Analysis Commenced : 29-Nov-2022</p> <p>Issue Date : 30-Nov-2022 09:58</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>
Kevin Duarte	Supervisor - Metals ICP Instrumentation	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 : VA22C8848</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 : Sir Winston Churchill Secondary</p> <p>PO : ----</p> <p>C-O-C number : 20-1038013 & 20-1017025</p> <p>Sampler : R. Lemay</p> <p>Site : ----</p> <p>Quote number : ----</p> <p>No. of samples received : 19</p> <p>No. of samples analysed : 19</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 : 25-Nov-2022 14:55</p> <p>Issue Date : 30-Nov-2022 09:58</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 F.G.D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. 136 Rm. 110 Bottle Filler	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. 136 Rm. 145 D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. 149 Bottle Filler	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. 169 Rm 148b Bottle Filler	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. 234 Rm. 231 D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. 236 Rm. 201 D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 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. 236 Rm. 213 Bottle Filler	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. 236 Rm. 215 Bottle Filler	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. 334 Rm. 333 D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. 336 Rm. 301 D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. 336 Rm. 313 Bottle Filler	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. 336 Rm. 316 D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. A107 Rm. A116 S.S.D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. A204 Rm. A214 S.S.D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✔	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. A304 Rm. A313 S.S.D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 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) Girls Change D.F.	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✔
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Rm. 115 Bubbler	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 days	✔
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Rm. 117 Bubbler	E420	25-Nov-2022	29-Nov-2022	----	----		30-Nov-2022	180 days	5 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	759587	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Total metals in Water by CRC ICPMS	E420	759587	1	20	5.0	5.0	✔
Method Blanks (MB)							
Total metals in Water by CRC ICPMS	E420	759587	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Total metals in Water by CRC ICPMS	E420	759587	1	20	5.0	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 : VA22C8848</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 : Sir Winston Churchill Secondary</p> <p>PO : ----</p> <p>C-O-C number : 20-1038013 & 20-1017025</p> <p>Sampler : R. Lemay ----</p> <p>Site : ----</p> <p>Quote number : ----</p> <p>No. of samples received : 19</p> <p>No. of samples analysed : 19</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 : 25-Nov-2022 14:55</p> <p>Date Analysis Commenced : 29-Nov-2022</p> <p>Issue Date : 30-Nov-2022 09:58</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>
Kevin Duarte	Supervisor - Metals ICP Instrumentation	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: 759587)											
KS2204420-001	Anonymous	lead, total	7439-92-1	E420	0.000500	mg/L	<0.000500	<0.000500	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 (QC Lot: 759587)						
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: 759587)									
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 \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: 759587)										
VA22C8848-001	Corr. 169 Rm 148b Bottle Filler	lead, total	7439-92-1	E420	0.0197 mg/L	0.02 mg/L	98.4	70.0	130	----



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20-1038013

Page 1 of 2

Contact and company name below will appear on the final report

Company: Vancouver School Board
Contact: Stephen Thomas
Phone: 604 713-5637

Select Report Format: PDF EXCEL EDD (DIGITAL)
Merge QO/QCI Reports with COA YES NO N/A
Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: EMAIL MAIL FAX

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 [D] if received by 3pm M-F - 100% rush surcharge minimum
Some day [SD] if received by 10am M-S - 200% rush surcharge. Additional surcharges may apply to rush requests on weekends, statutory holidays and non-routine requests.
Date and Time Required for all ESP TATs:
For all tests with rush TATs requested, please contact ALS.

Street: 1549 Clark Drive
City/Province: Vancouver B.C.
Postal Code:
Invoice To: Same as Report To YES NO
Copy of Invoice with Report YES NO
Company:
Contact:

Select Invoice Distribution: EMAIL MAIL FAX
Email 1 or Fax: 55thomas@usb.bc.ca
Email 2: clarell@usb.bc.ca
Email 3: jdueng@usb.bc.ca
Invoice Recipients:
Email 1 or Fax:
Email 2:
Oil and Gas Required Fields (client use)
AP/ECost Center:
Major/Minor Code:
Routing Code:
Requester:
Location:

Indicate Filtered (F), Preserved (P) or Filtered on Analysis Re
Telephone: +1 804 253 4198

ALS Account # / Quote #:
Job #: Sir Winston Churchill Secondary
PO / AFE:
LSD:
ALS Lab Work Order # (ALS use only):

ALS Contract: I. Tarahvun.
Date (dd-mm-yy):
Time (hh:mm):
Sample Type:
Sample: R. Leney

NUMBER OF CONTAINERS
Lead

SAMPLES ON HOLD
EXTENDED STORAGE REQUIRED
SUSPECTED HAZARD (see SDS)

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
1	Corr. 169 Rm. 148b Bottle Filler	25-11-22	7:32am	water
2	Rm. 115 Bubble	25-11-22	7:44am	water
3	Corr. 149 Bottle Filler	25-11-22	7:50am	water
4	Boys Change F.G. D.F.	25-11-22	7:53am	water
5	Girls Change D.F.	25-11-22	7:59am	water
6	Rm. 117 Bubble	25-11-22	8:04am	water
7	Corr. A107 Rm. A116 S.S.D.F.	25-11-22	8:10am	water
8	Corr. 136 Rm. 145 D.F.	25-11-22	8:14am	water
9	Corr. 136 Rm. 110 Bottle Filler	25-11-22	8:21am	water
10	Corr. 234 Rm. 231 D.F.	25-11-22	8:25am	water
11	Corr. 236 Rm. 213 Bottle Filler	25-11-22	8:29am	water
12	Corr. 236 Rm. 201 D.F.	25-11-22	8:33am	water

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	Number of Containers
					Lead

Drinking Water (DW) Samples (client use)
Notes: Specify limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? YES NO
Are samples for human consumption/ use? YES NO
No preservatives added

Cooling Method: NONE ICE ICE PACKS FROZEN COOLING INITIATED
Submission Comments Identified on Sample Receipt Notification: YES NO
Cooler Custody Seals Intact: YES NO
Cooler Custody Seals Intact: YES NO
Initial Cooler Temperature: YES NO
Final Cooler Temperature: YES NO

Released by: SHIPMENT RELEASE (client use)
Date:
Time:
Received by:
Date:
Time:
WHITE - LABORATORY COPY
YELLOW - CLIENT COPY

SHIPMENT RECEIPT (ALS use only)
Date:
Time:
Received by:
Date:
Time:
FINAL SHIPMENT RECEIPT (ALS use only)
Date:
Time:
NOV 25 2022

Accepted from: [Signature]

Environmental Division
Vancouver
Work Order Reference
VA22C8848
Barcode
Telephone: +1 804 253 4198



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 1017025

Page 2 of 2

Report To Contact and company name below will appear on the final report		Reports / Recipients			Turnaround Time (TAT) Requested			AFFIX ALS BARCODE LABEL HERE (ALS use only)																																																																																																																																																								
Company:	Vancouver School Board	Select Report Format:	<input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)	<input checked="" type="checkbox"/> Routine [R] if received by 3pm M-F - no surcharges apply <input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests																																																																																																																																																												
Contact:	Stephen Thomas	Merge QC/QCI Reports with COA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A																																																																																																																																																													
Phone:	604 713-5637	Compare Results to Criteria on Report - provide details below if box checked	<input type="checkbox"/>																																																																																																																																																													
Company address below will appear on the final report		Select Distribution:	<input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX	Date and Time Required for all E&P TATs:			dd-mm-yy hh:mm am/pm																																																																																																																																																									
Street:	1549 Clark Drive	Email 1 or Fax:	sstomas@vsb.bc.ca	Invoice Recipients			For all tests with rush TATs requested, please contact your AM to confirm availability.																																																																																																																																																									
City/Province:	Vancouver B.C.	Email 2:	ccarrell@vsb.bc.ca	Select Invoice Distribution:							Analysis Request																																																																																																																																																					
Postal Code:		Email 3:	jdvoeng@vsb.bc.ca	Invoice Distribution:			<input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX																																																																																																																																																									
Invoice To:	Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Invoice Recipients			<table border="1"> <thead> <tr> <th rowspan="2">NUMBER OF CONTAINERS</th> <th colspan="10">Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below</th> <th rowspan="2">SAMPLES ON HOLD</th> <th rowspan="2">EXTENDED STORAGE REQUIRED</th> <th rowspan="2">SUSPECTED HAZARD (see notes)</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>						NUMBER OF CONTAINERS	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below										SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)	1	2	3	4	5	6	7	8	9	10	Lead																																																																																																																													
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Job #: Sir Winston Churchill Secondary		Major/Minor Code:		Routing Code:																																																																																																																																																												
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ALS Lab Work Order # (ALS use only):		ALS Contact: T. Taranum		Sampler: R. Lemay																																																																																																																																																												
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																																																																																																																																																										
13	Corr. 236 Rm. 215 Bottle Filler			25-11-22	8:37	water																																																																																																																																																										
14	Corr. A204 Rm. A214 S.S.D.F.			25-11-22	8:41	water																																																																																																																																																										
15	Corr. A304 Rm. A313 S.S.D.F.			25-11-22	8:45	water																																																																																																																																																										
16	Corr. 336 Rm. 316 D.F.			25-11-22	8:49	water																																																																																																																																																										
17	Corr. 336 Rm. 301 D.F.			25-11-22	8:53	water																																																																																																																																																										
18	Corr. 336 Rm. 313 Bottle Filler			25-11-22	8:56	water																																																																																																																																																										
19	Corr. 334 Rm. 333 D.F.			25-11-22	12:02pm	water																																																																																																																																																										
Drinking Water (DW) Samples (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)			SAMPLE RECEIPT DETAILS (ALS use only)																																																																																																																																																											
Are samples taken from a Regulated DW System?		No Preservatives Added			Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input checked="" type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED																																																																																																																																																											
Are samples for human consumption/ use?					Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO																																																																																																																																																											
					Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A																																																																																																																																																											
					INITIAL COOLER TEMPERATURES °C: FINAL COOLER TEMPERATURES °C: 3																																																																																																																																																											
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)																																																																																																																																																											
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	NOV 25 2022			1955																																																																																																																																																					

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 25 2022

AUG 2020 FRONT

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 VA22C8848

Project Sir Winston Churchill Secondary
Report To Stephen Thomas, Vancouver School Board
Date Received 25-Nov-2022 14:55
Issue Date 30-Nov-2022 09:58
Amendment 0

Client Sample ID			Corr. 169 Rm 148b Bottle Filler	Rm. 115 Bubbler	Corr. 149 Bottle Filler	Boys Change F.G.D.F.	Girls Change D.F.	Rm. 117 Bubbler	Corr. A107 Rm. A116 S.S.D.F.	Corr. 136 Rm. 145 D.F.	Corr. 136 Rm. 110 Bottle Filler	Corr. 234 Rm. 231 D.F.	Corr. 236 Rm. 213 Bottle Filler	Corr. 236 Rm. 201 D.F.	Corr. 236 Rm. 215 Bottle Filler	Corr. A204 Rm. A214 S.S.D.F.	Corr. A304 Rm. A313 S.S.D.F.	Corr. 336 Rm. 316 D.F.	Corr. 336 Rm. 301 D.F.	Corr. 336 Rm. 313 Bottle Filler	Corr. 334 Rm. 333 D.F.
Date Sampled			25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022	25-Nov-2022
Time Sampled			07:32	07:44	07:50	07:55	07:59	08:04	08:10	08:14	08:21	08:25	08:29	08:33	08:37	08:41	08:45	08:49	08:53	08:56	12:02
ALS Sample ID			VA22C8848-001	VA22C8848-002	VA22C8848-003	VA22C8848-004	VA22C8848-005	VA22C8848-006	VA22C8848-007	VA22C8848-008	VA22C8848-009	VA22C8848-010	VA22C8848-011	VA22C8848-012	VA22C8848-013	VA22C8848-014	VA22C8848-015	VA22C8848-016	VA22C8848-017	VA22C8848-018	VA22C8848-019
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	0.000320	0.00341	0.000102	0.00116	0.000407	0.00227	<0.000050	0.00106	0.000272	0.00157	0.000214	0.00135	0.000296	0.00111	0.000941	0.000796	0.00206	0.000354	0.00245