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## CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

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<p><b>Work Order</b> : <b>VA23A1310</b></p> <p><b>Client</b> : <b>Vancouver School Board</b></p> <p><b>Contact</b> : Stephen Thomas</p> <p><b>Address</b> : 1549 Clark Drive Vancouver BC Canada V5L 3L4</p> <p><b>Telephone</b> : ----</p> <p><b>Project</b> : Windermere Secondary</p> <p><b>PO</b> : ----</p> <p><b>C-O-C number</b> : 20-1041760/765</p> <p><b>Sampler</b> : K. Messamore</p> <p><b>Site</b> : ----</p> <p><b>Quote number</b> : Standing Offer</p> <p><b>No. of samples received</b> : 14</p> <p><b>No. of samples analysed</b> : 14</p>	<p><b>Page</b> : 1 of 3</p> <p><b>Laboratory</b> : Vancouver - Environmental</p> <p><b>Account Manager</b> : Tasnia Tarannum</p> <p><b>Address</b> : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p><b>Telephone</b> : +1 604 253 4188</p> <p><b>Date Samples Received</b> : 19-Jan-2023 15:00</p> <p><b>Date Analysis Commenced</b> : 23-Jan-2023</p> <p><b>Issue Date</b> : 24-Jan-2023 17:41</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 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).**

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### Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
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

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<p><b>Work Order</b> : <b>VA23A1310</b></p> <p><b>Client</b> : <b>Vancouver School Board</b></p> <p><b>Contact</b> : Stephen Thomas</p> <p><b>Address</b> : 1549 Clark Drive Vancouver BC Canada V5L 3L4</p> <p><b>Telephone</b> : ----</p> <p><b>Project</b> : Windermere Secondary</p> <p><b>PO</b> : ----</p> <p><b>C-O-C number</b> : 20-1041760/765</p> <p><b>Sampler</b> : K. Messamore</p> <p><b>Site</b> : ----</p> <p><b>Quote number</b> : Standing Offer</p> <p><b>No. of samples received</b> : 14</p> <p><b>No. of samples analysed</b> : 14</p>	<p><b>Page</b> : 1 of 6</p> <p><b>Laboratory</b> : Vancouver - Environmental</p> <p><b>Account Manager</b> : Tasnia Tarannum</p> <p><b>Address</b> : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p><b>Telephone</b> : +1 604 253 4188</p> <p><b>Date Samples Received</b> : 19-Jan-2023 15:00</p> <p><b>Issue Date</b> : 24-Jan-2023 17:41</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.

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### ***Workorder Comments***

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

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### ***Summary of Outliers***

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

- No Method Blank value outliers occur.
- 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	
<b>Total Metals : Total metals in Water by CRC ICPMS</b>										
HDPE - total (lab preserved) corr 139 rm 106 SSDF	E420	19-Jan-2023	23-Jan-2023	----	----		23-Jan-2023	180 days	4 days	✓
<b>Total Metals : Total metals in Water by CRC ICPMS</b>										
HDPE - total (lab preserved) Corr 139 rm 114C DF	E420	19-Jan-2023	23-Jan-2023	----	----		23-Jan-2023	180 days	4 days	✓
<b>Total Metals : Total metals in Water by CRC ICPMS</b>										
HDPE - total (lab preserved) Corr 201 rm B202 DF	E420	19-Jan-2023	23-Jan-2023	----	----		23-Jan-2023	180 days	4 days	✓
<b>Total Metals : Total metals in Water by CRC ICPMS</b>										
HDPE - total (lab preserved) Rm 116 Bubbler	E420	19-Jan-2023	23-Jan-2023	----	----		23-Jan-2023	180 days	4 days	✓
<b>Total Metals : Total metals in Water by CRC ICPMS</b>										
HDPE - total (lab preserved) Rm 118 Bubbler	E420	19-Jan-2023	23-Jan-2023	----	----		23-Jan-2023	180 days	4 days	✓
<b>Total Metals : Total metals in Water by CRC ICPMS</b>										
HDPE - total (lab preserved) RM 236 Bubbler	E420	19-Jan-2023	23-Jan-2023	----	----		23-Jan-2023	180 days	4 days	✓
<b>Total Metals : Total metals in Water by CRC ICPMS</b>										
HDPE - total (lab preserved) RM 237 Bubbler	E420	19-Jan-2023	23-Jan-2023	----	----		23-Jan-2023	180 days	4 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		
<b>Total Metals : Total metals in Water by CRC ICPMS</b>											
HDPE - total (lab preserved) Boys change rm 250 DF	E420	19-Jan-2023	23-Jan-2023	----	----		24-Jan-2023	180 days	5 days	✔	
<b>Total Metals : Total metals in Water by CRC ICPMS</b>											
HDPE - total (lab preserved) Corr 140 rm 131 Bottle Filler	E420	19-Jan-2023	23-Jan-2023	----	----		24-Jan-2023	180 days	5 days	✔	
<b>Total Metals : Total metals in Water by CRC ICPMS</b>											
HDPE - total (lab preserved) Corr 240 rm 224 Bottle Filler	E420	19-Jan-2023	23-Jan-2023	----	----		24-Jan-2023	180 days	5 days	✔	
<b>Total Metals : Total metals in Water by CRC ICPMS</b>											
HDPE - total (lab preserved) Corr 245 rm 202 Bottle Filler	E420	19-Jan-2023	23-Jan-2023	----	----		24-Jan-2023	180 days	5 days	✔	
<b>Total Metals : Total metals in Water by CRC ICPMS</b>											
HDPE - total (lab preserved) Corr 332 rm 317 DF	E420	19-Jan-2023	23-Jan-2023	----	----		24-Jan-2023	180 days	5 days	✔	
<b>Total Metals : Total metals in Water by CRC ICPMS</b>											
HDPE - total (lab preserved) Corr 333 rm 302 Bottle Filler	E420	19-Jan-2023	23-Jan-2023	----	----		24-Jan-2023	180 days	5 days	✔	
<b>Total Metals : Total metals in Water by CRC ICPMS</b>											
HDPE - total (lab preserved) Girls change rm 246 DF	E420	19-Jan-2023	23-Jan-2023	----	----		24-Jan-2023	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
<b>Analytical Methods</b>							
<b>Laboratory Duplicates (DUP)</b>							
Total metals in Water by CRC ICPMS	E420	810216	2	36	5.5	5.0	✔
<b>Laboratory Control Samples (LCS)</b>							
Total metals in Water by CRC ICPMS	E420	810216	2	36	5.5	5.0	✔
<b>Method Blanks (MB)</b>							
Total metals in Water by CRC ICPMS	E420	810216	2	36	5.5	5.0	✔
<b>Matrix Spikes (MS)</b>							
Total metals in Water by CRC ICPMS	E420	810216	2	36	5.5	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

<b>Work Order</b>	<b>: VA23A1310</b>	<b>Page</b>	<b>: 1 of 4</b>
<b>Client</b>	: Vancouver School Board	<b>Laboratory</b>	: Vancouver - Environmental
<b>Contact</b>	: Stephen Thomas	<b>Account Manager</b>	: Tasnia Tarannum
<b>Address</b>	: 1549 Clark Drive Vancouver BC Canada V5L 3L4	<b>Address</b>	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
<b>Telephone</b>	:	<b>Telephone</b>	: +1 604 253 4188
<b>Project</b>	: Windermere Secondary	<b>Date Samples Received</b>	: 19-Jan-2023 15:00
<b>PO</b>	: ----	<b>Date Analysis Commenced</b>	: 23-Jan-2023
<b>C-O-C number</b>	: 20-1041760/765	<b>Issue Date</b>	: 24-Jan-2023 17:41
<b>Sampler</b>	: K. Messamore_---		
<b>Site</b>	: ----		
<b>Quote number</b>	: Standing Offer		
<b>No. of samples received</b>	: 14		
<b>No. of samples analysed</b>	: 14		

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>
Kim Jensen	Department Manager - Metals	Vancouver Metals, Burnaby, British Columbia
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
<b>Total Metals (QC Lot: 810216)</b>											
FJ2300138-001	Anonymous	Lead, total	7439-92-1	E420	0.000050	mg/L	0.000344	0.000346	0.000002	Diff <2x LOR	----
<b>Total Metals (QC Lot: 810217)</b>											
VA23A1310-008	corr 139 rm 106 SSDF	Lead, total	7439-92-1	E420	0.000050	mg/L	0.00628	0.00646	2.94%	20%	----



### Method Blank (MB) Report

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

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
<b>Total Metals (QCLot: 810216)</b>						
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
<b>Total Metals (QCLot: 810217)</b>						
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----

### Laboratory Control Sample (LCS) Report

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

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
<b>Total Metals (QCLot: 810216)</b>									
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	100	80.0	120	----
<b>Total Metals (QCLot: 810217)</b>									
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	97.7	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
<b>Total Metals (QCLot: 810216)</b>										
VA23A1288-037	Anonymous	Lead, total	7439-92-1	E420	0.0194 mg/L	0.02 mg/L	96.8	70.0	130	----
<b>Total Metals (QCLot: 810217)</b>										
VA23A1310-009	Corr 139 rm 114C DF	Lead, total	7439-92-1	E420	0.0185 mg/L	0.02 mg/L	92.3	70.0	130	----





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Chain of Custody (COC) / Analytical Request Form

COC Number: 20-1041760

Canada Toll Free: 1 800 668 9878

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Report To		Reports / Recipients		Turnaround Time (TAT) Requested	
Contact and company name below will appear on the final report		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	
Company:	VAN COUVER SCHOOL BOARD	Merge QC/QCI Reports with COA <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		<input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum	
Contact:	604-713-5637	<input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked		<input type="checkbox"/> 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum	
Phone:	STEPHEN THOMAS	Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		<input type="checkbox"/> 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum	
Company address below will appear on the final report		Email 1 or Fax SSTHOMAS@VSB.bc.ca		<input type="checkbox"/> 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum	
Street:	1549 Clark Drive	Email 2 CCarrell@VSB.bc.ca		<input type="checkbox"/> Same day [E2] if received by 10am M-F - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests	
City/Province:	Vancouver BC	Email 3 Jduong@VSB.bc.ca		Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm	
Postal Code:				For all tests with rush TATs requested, please contact your AM to confirm availability.	
Invoice To	Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		Analysis Request	
	Copy of Invoice with Report <input type="checkbox"/> YES <input type="checkbox"/> NO	Email 1 or Fax		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below	
Company:		Email 2		NUMBER OF CONTAINERS	
Contact:				LEAD	
Project Information		Oil and Gas Required Fields (client use)		SAMPLES ON HOLD	
ALS Account # / Quote #		AFE/Cost Center:	PO#	EXTENDED STORAGE REQUIRED	
Job #:	WINDERMERE Secondary	Major/Minor Code:	Routing Code:	SUSPECTED HAZARD (see notes)	
PO / AFE:		Requisitioner:			
LSD:		Location:			
ALS Lab Work Order # (ALS use only):		ALS Contact: T. Turnum	Sampler: K. McEwen		
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	
	Girls change RM 246 DF	19-JAN-23	7:10	WATER	
	Corr 245 RM 202 Bottle Filler	19-JAN-23	7:12	WATER	
	Boys change RM 250 DF	19-JAN-23	7:14	WATER	
	Corr 240 RM 224 Bottle Filler	19-JAN-23	7:20	WATER	
	Corr 332 RM 317 DF	19-JAN-23	7:26	WATER	
	Corr 333 RM 302 Bottle Filler	19-JAN-23	7:30	WATER	
	Corr 140 RM 131 Bottle Filler	19-JAN-23	7:35	WATER	
	Corr 139 RM 106 SSPF	19-JAN-23	7:41	WATER	
	Corr 139 RM 114C DF	19-JAN-23	7:44	WATER	
	RM 118 Bubbler	19-JAN-23	7:48	WATER	
	RM 116 Bubbler	19-JAN-23	7:50	WATER	
	Corr 201 RM B202 DF	19-JAN-23	7:56	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? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		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? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				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: 6 FINAL COOLER TEMPERATURES °C: 6	
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)	
Released by:	Date:	Time:	Received by:	Date:	Time:
				Jan 19	1500

Environmental Division  
Vancouver  
Work Order Reference  
**VA23A1310**

Telephone: +1 604 253 4188

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 F70101

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.



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 1041765

Page 2 of 2

<b>Report To</b> Contact and company name below will appear on the final report		<b>Reports / Recipients</b>			<b>Turnaround Time (TAT) Requested</b>			<b>AFFIX ALS BARCODE LABEL HERE (ALS use only)</b>																											
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	Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: SS Thomas@vsb.bc.ca Email 2: CCarroll@vsb.bc.ca Email 3: Jduong@vsb.bc.ca			Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm																												
Phone:	604-713-5637	Compare Results to Criteria on Report - provide details below if box checked	<input type="checkbox"/>	Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			For all tests with rush TATs requested, please contact your AM to confirm availability.																												
Company address below will appear on the final report		<b>Invoice Recipients</b>			<b>Analysis Request</b>																														
Street:	1549 Clark drive	Email 1 or Fax			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																														
City/Province:	VANCOUVER BC	Email 2			<table border="1"> <tr> <td rowspan="2">NUMBER OF CONTAINERS</td> <td rowspan="2">LEAD</td> <td colspan="10"></td> <td rowspan="2">SAMPLES ON HOLD</td> <td rowspan="2">EXTENDED STORAGE REQUIRED</td> <td rowspan="2">SUSPECTED HAZARD (see notes)</td> </tr> <tr> <td colspan="10"></td> </tr> </table>						NUMBER OF CONTAINERS	LEAD											SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)										
NUMBER OF CONTAINERS	LEAD												SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)																				
Postal Code:		Email 3																																	
Invoice To	Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Select Invoice Distribution:																																	
Copy of Invoice with Report	<input type="checkbox"/> YES <input type="checkbox"/> NO	Email 1 or Fax																																	
Company:		Email 2																																	
Contact:		Oil and Gas Required Fields (client use)																																	
<b>Project Information</b>		AFE/Cost Center:																																	
ALS Account # / Quote #		Major/Minor Code:																																	
Job #:		Routing Code:																																	
PO / AFE:		Requisitioner:																																	
LSD:		Location:																																	
ALS Lab Work Order # (ALS use only):		ALS Contact: T. Tolamum			Sampler: K. Messamore																														
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type																															
	RM 237 Bubbler	19-JAN-23	7:59	WATER																															
	RM 236 Bubbler	19-JAN-23	8:01	WATER																															
<b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b>		<b>Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)</b>			<b>SAMPLE RECEIPT DETAILS (ALS use only)</b>																														
Are samples taken from a Regulated DW System? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		No preservatives added			Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED																														
Are samples for human consumption/ use? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					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																																	
<b>SHIPMENT RELEASE (client use)</b>		<b>INITIAL SHIPMENT RECEPTION (ALS use only)</b>			<b>FINAL SHIPMENT RECEPTION (ALS use only)</b>																														
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:																								

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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 VA23A1310

**Project** Windermere Secondary  
**Report To** Stephen Thomas, Vancouver School Board  
**Date Received** 19-Jan-2023 15:00  
**Issue Date** 24-Jan-2023 17:41  
**Amendment** 0

Client Sample ID			Girls change rm 246 DF	Corr 245 rm 202 Bottle Filler	Boys change rm 250 DF	Corr 240 rm 224 Bottle Filler	Corr 332 rm 317 DF	Corr 333 rm 302 Bottle Filler	Corr 140 rm 131 Bottle Filler	corr 139 rm 106 SSDF	Corr 139 rm 114C DF	Rm 118 Bubblers	Rm 116 Bubblers	Corr 201 rm B202 DF	RM 237 Bubblers	RM 236 Bubblers	
Date Sampled			19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023	19-Jan-2023
Time Sampled			07:10	07:12	07:14	07:20	07:26	07:30	07:35	07:41	07:44	07:48	07:50	07:56	07:59	08:01	
ALS Sample ID			VA23A1310-001	VA23A1310-002	VA23A1310-003	VA23A1310-004	VA23A1310-005	VA23A1310-006	VA23A1310-007	VA23A1310-008	VA23A1310-009	VA23A1310-010	VA23A1310-011	VA23A1310-012	VA23A1310-013	VA23A1310-014	
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	
<b>Total Metals (Matrix: Water)</b>																	
Lead, total	0.000050	mg/L	0.00254	0.000211	0.000510	0.000110	0.000560	0.000170	0.000179	0.00628	0.000468	0.00216	0.000922	0.00154	0.0122	0.000448	