



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

<p>Work Order : VA23A0745</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 : Lord Roberts Elementary</p> <p>PO : ----</p> <p>C-O-C number : 20-104694</p> <p>Sampler : ----</p> <p>Site : ----</p> <p>Quote number : Standing Offer</p> <p>No. of samples received : 9</p> <p>No. of samples analysed : 9</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 : 12-Jan-2023 15:05</p> <p>Date Analysis Commenced : 14-Jan-2023</p> <p>Issue Date : 16-Jan-2023 21:13</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 : VA23A0745</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 : Lord Roberts Elementary</p> <p>PO : ----</p> <p>C-O-C number : 20-104694</p> <p>Sampler : ----</p> <p>Site : ----</p> <p>Quote number : Standing Offer</p> <p>No. of samples received : 9</p> <p>No. of samples analysed : 9</p>	<p>Page : 1 of 6</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 : 12-Jan-2023 15:05</p> <p>Issue Date : 16-Jan-2023 21:13</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. 513 D.F.	E420	12-Jan-2023	14-Jan-2023	----	----		16-Jan-2023	180 days	4 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Building 21B Corr. 006 D.F.	E420	12-Jan-2023	14-Jan-2023	----	----		16-Jan-2023	180 days	4 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Building 21B Corr. 100 Rm. 100A D.F.	E420	12-Jan-2023	14-Jan-2023	----	----		16-Jan-2023	180 days	4 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Building 21B Corr. 200 Rm. 207 D.F.	E420	12-Jan-2023	14-Jan-2023	----	----		16-Jan-2023	180 days	4 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. 016 Rm. 007 S.S.D.F.	E420	12-Jan-2023	14-Jan-2023	----	----		16-Jan-2023	180 days	4 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. 100 Rm. 106 Bottle Filler	E420	12-Jan-2023	14-Jan-2023	----	----		16-Jan-2023	180 days	4 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. 213 Rm. 210 Bottle Filler	E420	12-Jan-2023	14-Jan-2023	----	----		16-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	
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Corr. 311 Rm. 305 S.S.D.F.	E420	12-Jan-2023	14-Jan-2023	----	----		16-Jan-2023	180 days	4 days	✔
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Girls Change Rm. 507 D.F.	E420	12-Jan-2023	14-Jan-2023	----	----		16-Jan-2023	180 days	4 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	801476	1	19	5.2	5.0	✔
Laboratory Control Samples (LCS)							
Total metals in Water by CRC ICPMS	E420	801476	1	19	5.2	5.0	✔
Method Blanks (MB)							
Total metals in Water by CRC ICPMS	E420	801476	1	19	5.2	5.0	✔
Matrix Spikes (MS)							
Total metals in Water by CRC ICPMS	E420	801476	1	19	5.2	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

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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: 801476)											
KS2300097-001	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: 801476)						
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: 801476)									
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: 801476)										
KS2300097-002	Anonymous	lead, total	7439-92-1	E420	0.0189 mg/L	0.02 mg/L	94.6	70.0	130	----



www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - 1041694

Canada Toll Free: 1 800 668 9878

Page of

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 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								
Contact:	Stephen Thomas	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								
Phone:	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								
Company address below will appear on the final report		Select Distribution:	<input 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								
Street:	1549 Clark Drive	Email 1 or Fax		<input type="checkbox"/> 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum								
City/Province:	Vancouver B.C.	Email 2		<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								
Postal Code:		Email 3		Date and Time Required for all E&P TATs:			dd-mmm-yy hh:mm am/pm					
Invoice To	Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Invoice Recipients			For all tests with rush TATs requested, please contact your AM to confirm availability.							
	Copy of Invoice with Report <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								
Company:		Email 1 or Fax		NUMBER OF CONTAINERS Lead	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below						SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)	
Contact:		Email 2										
Project Information		Oil and Gas Required Fields (client use)										
ALS Account # / Quote #:		AFE/Cost Center:	PO#									
Job #:	Lord Roberts Elementary	Major/Minor Code:	Routing Code:									
PO / AFE:		Requisitioner:										
LSD:		Location:										
ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler:									
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						
	Corr. 016 Rm. 007 S.S.D.F		12-01-23		7:33am	water						
	Corr. 100 Rm. 106 Bottle Filler		12-01-23	7:37am	water							
	Corr. 213 Rm. 210 Bottle Filler		12-01-23	7:41am	water							
	Corr. 311 Rm. 305 S.S.D.F		12-01-23	7:45am	water							
	Building 213 Corr. 006 D.F.		12-01-23	7:51am	water							
	Building 213 Corr. 100 Rm. 100A D.F.		12-01-23	7:57am	water							
	Building 213 Corr. 200 Rm. 207 D.F.		12-01-23	8:00am	water							
	Girls change Rm. 507 D.F.		12-01-23	8:04am	water							
	Boys change Rm. 513 D.F.		12-01-23	8:10am	water							

Environmental Division
Vancouver
Work Order Reference
VA23A0745



Telephone : + 1 604 253 4188

Drinking Water (DW) Samples¹ (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: _____ FINAL COOLER TEMPERATURES °C: _____		
					7		
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:
						RD	Jan 12, 23
							3:05pm

Results Summary VA23A0745

Project Lord Roberts Elementary
Report To Stephen Thomas, Vancouver School Board
Date Received 12-Jan-2023 15:05
Issue Date 16-Jan-2023 21:14
Amendment 0

Client Sample ID	Corr. 016 Rm. 007 S.S.D.F.	Corr. 100 Rm. 106 Bottle Filler	Corr. 213 Rm. 210 Bottle Filler	Corr. 311 Rm. 305 S.S.D.F.	Building 21B Corr. 006 D.F.	Building 21B Corr. 100 Rm. 100A D.F.	Building 21B Corr. 200 Rm. 207 D.F.	Girls Change Rm. 507 D.F.	Boys Change Rm. 513 D.F.		
Date Sampled	12-Jan-2023	12-Jan-2023	12-Jan-2023	12-Jan-2023	12-Jan-2023	12-Jan-2023	12-Jan-2023	12-Jan-2023	12-Jan-2023		
Time Sampled	07:23	07:37	07:41	07:45	07:51	07:57	08:00	08:04	08:10		
ALS Sample ID	VA23A0745-001	VA23A0745-002	VA23A0745-003	VA23A0745-004	VA23A0745-005	VA23A0745-006	VA23A0745-007	VA23A0745-008	VA23A0745-009		
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		
Total Metals (Matrix: Water)											
lead, total	0.000050	mg/L	0.000062	<0.000050	0.000545	0.000267	0.000637	0.000470	0.000383	0.00595	0.000892