## **ALS Canada Ltd.**

Contact



# **CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)**

: VA22D0675 **Work Order** Page : 1 of 3

Client Laboratory : Vancouver - Environmental : Vancouver School Board

: Stephen Thomas **Account Manager** : Tasnia Tarannum Address Address

: 1549 Clark Drive : 8081 Lougheed Highway

Vancouver BC Canada V5L 3L4 Burnaby, British Columbia Canada V5A 1W9

Telephone : ----Telephone : +1 604 253 4188 : Lord Byng Secondary **Date Samples Received** : 19-Dec-2022 15:30

Project **Date Analysis Commenced** : 22-Dec-2022 PO

: 28-Dec-2022 17:40 C-O-C number : 20-1017395 Issue Date

Sampler : RL Site : ----Quote number : ----No. of samples received : 12 No. of samples analysed : 12

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

## **Signatories**

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

Signatories Laboratory Department Position

Kevin Duarte Supervisor - Metals ICP Instrumentation Metals, Burnaby, British Columbia Page : 2 of 3 Work Order · VA22D0675

Client : Vancouver School Board
Project : Lord Byng Secondary



### 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).

Unit	Description
mg/L	milligrams per litre

<sup>&</sup>gt;: greater 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.

<sup>&</sup>lt;: less than.

Page

3 of 3 VA22D0675 Work Order

Client Vancouver School Board Lord Byng Secondary Project



# Analytical Results Evaluation

Matrix:	Clie	nt sample ID			 	 	
	Sampl	ing date/time			 	 	
		Sub-Matrix			 	 	
Analyte	CAS Number	Unit			 	 	
		-					
Please refer to the General Comments section for a	n explanation of any	qualifiers det	ected.				
lead, total	7439-92-1						



## **QUALITY CONTROL INTERPRETIVE REPORT**

**Work Order** :VA22D0675 Page : 1 of 6

Client : Vancouver School Board Laboratory : Vancouver - Environmental

Contact Stephen Thomas **Account Manager** : Tasnia Tarannum

Address Address : 1549 Clark Drive : 8081 Lougheed Highway

> Vancouver BC Canada V5L 3L4 Burnaby, British Columbia Canada V5A 1W9

Telephone : +1 604 253 4188 : 19-Dec-2022 15:30 Project : Lord Byng Secondary **Date Samples Received** 

PO Issue Date : 28-Dec-2022 17:40

C-O-C number :20-1017395

Sampler :RL Site Quote number No. of samples received :12 No. of samples analysed :12

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

Telephone

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.

Page : 3 of 6 Work Order : VA22D0675

Client : Vancouver School Board
Project : Lord Byng Secondary



## **Analysis Holding Time Compliance**

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and/or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

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

Analyte Group	Method	Sampling Date	Ext	traction / Pi	reparation		Analysis				
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval	
			Date	Rec	Actual			Rec	Actual		
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. 117 Rm. 104A S.S.D.F.	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180 days	9 days	✓	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. 117 Rm. 117A S.S.D.F.	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180 days	9 days	✓	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. 123 Rm. 119 S.S.D.F.	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180 days	9 days	✓	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved)  Corr. 221 Rm. 220A Bottle Filter	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180 days	9 days	✓	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. 319 Rm. 304A D.F.	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180 days	9 days	✓	
Total Metals : Total metals in Water by CRC ICPMS									'		
HDPE - total (lab preserved) Corr. 319 Rm. 305 D.F.	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180 days	9 days	✓	
Total Metals : Total metals in Water by CRC ICPMS											
HDPE - total (lab preserved) Corr. 319 Rm. 318 S.S.D.F.	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180 days	9 days	✓	

Page : 4 of 6 Work Order : VA22D0675

Client : Vancouver School Board
Project : Lord Byng Secondary



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

Watti. Water						araaraa	Tiolding time excee	Judinoo ,	***************************************	riolaling riiii
Analyte Group	Method	Sampling Date	Ext	raction / Pr	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holding	Holding Times Eval		Analysis Date	Date Holding Times		Eval
			Date	Rec	Actual			Rec	Actual	
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Girls Change Rm. 123 S.S.D.F.	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180 days	9 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Rm. 102 Cafe Bottle Filter	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180	9 days	✓
								days		
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Rm. 109 Bottle Filter	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180	9 days	✓
								days		
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Rm. B111 Bottle Filter	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180	9 days	✓
								days		
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Rm. B120 Bottle Filter	E420	19-Dec-2022	22-Dec-2022				28-Dec-2022	180	9 days	✓
								days		

## **Legend & Qualifier Definitions**

Rec. HT: ALS recommended hold time (see units).

Page : 5 of 6 Work Order : VA22D0675

Client : Vancouver School Board Project : Lord Byng Secondary



# **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														
Quality Control Sample Type		Co	unt	Frequency (%)										
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation							
Laboratory Duplicates (DUP)														
Total metals in Water by CRC ICPMS	E420	785094	1	19	5.2	5.0	✓							
Laboratory Control Samples (LCS)														
Total metals in Water by CRC ICPMS	E420	785094	1	19	5.2	5.0	✓							
Method Blanks (MB)														
Total metals in Water by CRC ICPMS	E420	785094	1	19	5.2	5.0	✓							
Matrix Spikes (MS)														
Total metals in Water by CRC ICPMS	E420	785094	1	19	5.2	5.0	✓							

Page : 6 of 6 Work Order : VA22D0675

Client : Vancouver School Board Project : Lord Byng Secondary



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

## **ALS Canada Ltd.**



# **QUALITY CONTROL REPORT**

Work Order : VA22D0675

Client : Vancouver School Board

Contact : Stephen Thomas

Address : 1549 Clark Drive

Vancouver BC Canada V5L 3L4

Telephone

Project : Lord Byng Secondary

PO :----

C-O-C number : 20-1017395

Sampler : RL

Site :---Quote number :---No. of samples received : 12
No. of samples analysed : 12

Page : 1 of 3

Laboratory : Vancouver - Environmental

Account Manager : Tasnia Tarannum

Address : 8081 Lougheed Highway

Burnaby, British Columbia Canada V5A 1W9

Telephone :+1 604 253 4188

Date Samples Received : 19-Dec-2022 15:30

Date Analysis Commenced : 22-Dec-2022

Issue Date : 28-Dec-2022 17:40

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.

Signatories Position Laboratory Department

Kevin Duarte Supervisor - Metals ICP Instrumentation

Vancouver Metals, Burnaby, British Columbia

Page : 2 of 3 Work Order : VA22D0675

Client : Vancouver School Board
Project : Lord Byng Secondary



#### 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 Lo	t: 785094)										
VA22D0657-001	Anonymous	lead, total	7439-92-1	E420	0.000050	mg/L	0.00179	0.00188	4.77%	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
Total Metals (QCLot: 785094)						
lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	

Page: 3 of 3

Work Order: VA22D0675
Client: Vancouver School Board

Project : Lord Byng Secondary



## 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	ke Recovery (%) Recovery Limits (%)						
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 785094)									
lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	101	80.0	120	

## Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Water	1 (	, , ,	,	, 3	Matrix Spike (MS) Report								
Sub-iviatilX: water						Recovery (%)		- I iit- (0/)					
					Spi	ке	Recovery (%)	Recovery	Limits (%)				
Laboratory sample	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier			
ID	1	·		'									
Total Metals (QC	Lot: 785094)												
VA22D0663-001	Anonymous	lead, total	7.00.00.4	= 100		0.00 "		=0.0	100				
VAZZD0003-001	Allollylllous	leau, lotai	7439-92-1	E420	0.0193 mg/L	0.02 mg/L	96.4	70.0	130				

## Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 1017395

r														
Report To	Contact and company name below will appea	r on the final report	Reports / R	ecipients			Tui	naround Tim	e (TAT) Requ	ested		34		
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Contact:	Stephen Thomas	Merg	ge QC/QCI Reports with COA	T YES NO	D IN/A					charge minimum	APELY	ALS BARCOI	NE LAGEI	UEDE
Phone:	604 713-5637		ompare Results to Criteria on Report - p	rovide details below if	box checked					rcharge minimum	AFFIA	(ALS use		, FILE ( )
	Company address below will appear on the final i	report Select	Distribution:	☐ MAIL ☐	FAX	ı —				rcharge minimum rcharge minimum			1	
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_ q	Rn. B 120	Bottle Fill	ler 19-12-22	8:42	water					)		·		
· at s	Km. 102 Cate	Bottle Fill	er 19-12-22	8:46	water								T	
Deinkin	g Water (DW) Samples <sup>1</sup> (client use)	Notes / Specify Limits	for result evaluation by selecting	g from drop-down	below	1944 P. W.	***	- 1986 C	SAMPLE RE	CEIPT DETAILS	(ALS use only	I) Kasil <sup>oji</sup>	iu' 🦓	k ind
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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 backpage 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 VA22D0675

Project Lord Byng Secondary

Report To Stephen Thomas, Vancouver School Board

 Date Received
 19-Dec-2022 15:30

 Issue Date
 28-Dec-2022 17:40

Amendment 0

Client Sample ID Date Sampled			Corr. 319 Rm. 305 D.F. 19-Dec-2022	Corr. 319 Rm. 304A D.F. 19-Dec-2022	Corr. 319 Rm. 318 S.S.D.F. 19-Dec-2022	Corr. 221 Rm. 220A Bottle Filter 19-Dec-2022	Corr. 117 Rm. 104A S.S.D.F. 19-Dec-2022	Corr. 117 Rm. 117A S.S.D.F. 19-Dec-2022	Corr. 123 Rm. 119 S.S.D.F. 19-Dec-2022	Rm. B111 Bottle Filter 19-Dec-2022	Rm. 109 Bottle Filter 19-Dec-2022	Girls Change Rm. 123 S.S.D.F. 19-Dec-2022	Rm. B120 Bottle Filter 19-Dec-2022	Rm. 102 Cafe Bottle Filter 19-Dec-2022
Time Sampled			08:07	08:09	08:12	08:16	08:19	08:20	08:27	08:35	08:38	08:41	08:42	08:46
ALS Sample ID			VA22D0675-001	VA22D0675-002	VA22D0675-003	VA22D0675-004	VA22D0675-005	VA22D0675-006	VA22D0675-007	VA22D0675-008	VA22D0675-009	VA22D0675-010	VA22D0675-011	VA22D0675-012
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
Total Metals (Matrix: Water) lead, total	0.000050	mg/L	0.000760	0.00170	0.00125	0.000717	0.00190	0.00116	0.000474	0.000065	0.000060	0.00148	0.00209	0.000059