

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Page

Work Order : VA22A4674

Client : Vancouver School Board Laboratory : Vancouver - Environmental

Contact : Stephen Thomas : Tasnia Tarannum

: 1549 Clark Drive Address : 8081 Lougheed Highway

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

: 1 of 3

 Telephone
 : -- Telephone
 : +1 604 253 4188

 Project
 : Sexsmith
 Date Samples Received
 : 07-Mar-2022 15:20

PO : ---- Date Analysis Commenced : 09-Mar-2022

C-O-C number : 20-985896 | Issue Date : 14-Mar-2022 10:52 | Sampler : RL

Site : ---Quote number : --No. of samples received : 10
No. of samples analysed : 10

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

Address

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

Dan Nguyen Team Leader - Inorganics Metals, Edmonton, Alberta

Page : 2 of 3 Work Order : VA22A4674

Client : Vancouver School Board

Project : Sexsmith



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

>: 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.

Analytical Results Evaluation

	Client sample ID	 	 	 	
Matrix:					
	Sampling date/time	 	 	 	
	Sub-Matrix		 	 	
Analyte	CAS Number Unit	 	 	 	
	-				

Please refer to the General Comments section for an explanation of any qualifiers detected.

<: less than.

 Page
 : 3 of 3

 Work Order
 : VA22A4674

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No Breaches Found

lead, total 7439-92-1 mg/L



QUALITY CONTROL INTERPRETIVE REPORT

Work Order : **VA22A4674** Page : 1 of 6

Client : Vancouver School Board Laboratory : Vancouver - Environmental

Contact : Stephen Thomas Account Manager : Tasnia Tarannum

Address : 1549 Clark Drive Address : 8081 Lougheed Highway

Burnaby, British Columbia Canada V5A 1W9

Telephone : +1 604 253 4188

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Vancouver BC Canada V5L 3L4

 Sampler
 : RL

 Site
 : ---

 Quote number
 : ---

 No. of samples received
 : 10

 No. of samples analysed
 : 10

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 Services 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 : VA22A4674

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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					E۱	/aluation: ≭ =	Holding time excee	edance ; •	✓ = Within	Holding Time
Analyte Group	Method	Sampling Date	Ext	raction / Pr	eparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holding	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)										
S.S. D.F. Entry 200 Rm. 207 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	✓
								days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
S.S. D.F. Rm. 142 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	✓
								days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Sink D.F. Rm. 103 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	✓
								days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Sink D.F. Rm. 104 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	✓
								days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Sink D.F. Rm. 105 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	✓
								days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Sink D.F. Rm. 106 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	✓
								days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Sink D.F. Rm. 110 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	✓
								days		

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

										J
Analyte Group	Method	Sampling Date	Ext	raction / Pro	eparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holding	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)										
Sink D.F. Rm. 111 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	✓
								days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Sink D.F. Rm. 112 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	✓
								days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Sink D.F. Rm. 113 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	✓
								days		

Legend & Qualifier Definitions

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

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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 Count Frequency (%) Method QC Lot # QC Regular Actual Expected Evaluation Analytical Methods Laboratory Duplicates (DUP) Total Metals in Water by CRC ICPMS 428973 20 5.0 5.0 E420 Laboratory Control Samples (LCS) Total Metals in Water by CRC ICPMS 20 428973 1 5.0 5.0 E420 Method Blanks (MB) Total Metals in Water by CRC ICPMS 428973 20 E420 1 5.0 5.0 Matrix Spikes (MS) Total Metals in Water by CRC ICPMS 428973 1 20 5.0 5.0 E420

Page : 6 of 6 Work Order : VA22A4674

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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.
	Edmonton -			
	Environmental			Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered
				by this method.



:VA22A4674

: 20-985896

QUALITY CONTROL REPORT

Page : 1 of 3

Client : Vancouver School Board Contact

Laboratory : Vancouver - Environmental **Account Manager** : Tasnia Tarannum

: Stephen Thomas Address : 1549 Clark Drive

Address

Vancouver BC Canada V5L 3L4

:8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9

Telephone

Work Order

C-O-C number

Telephone :+1 604 253 4188

Project : Sexsmith **Date Samples Received** :07-Mar-2022 15:20

PO

Date Analysis Commenced : 09-Mar-2022

Sampler :RL

Issue Date

٠____

: 14-Mar-2022 10:52

Site Quote number : ----No. of samples received : 10 No. of samples analysed : 10

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 Percentage Difference (RPD) and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits
- Reference Material (RM) Report; Recovery and Acceptance Limits
- Method Blank (MB) Report; Recovery and Acceptance Limits
- Laboratory Control Sample (LCS) Report; Recovery and Acceptance Limits

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

Dan Nguyen Team Leader - Inorganics Metals, Edmonton, Alberta Page : 2 of 3
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Project : Sexsmith



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 Services number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percentage 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							Labora	tory Duplicate (DI	JP) 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: 428973)										
FJ2200581-004	Anonymous	lead, total	7439-92-1	E420	0.000050	mg/L	0.00300	0.00310	3.01%	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 I	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 428973)						
lead, total	7439-92-1 E	E420	0.00005	mg/L	<0.000050	

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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 Co	ontrol Sample (LCS)	Report	
					Spike	Recovery (%)	Recovery	Limits (%)	
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 428973)									
lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	97.3	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							Matrix Spil	ke (MS) Report		
					Spi	ike	Recovery (%)	Recovery	Limits (%)	
Laboratory sample	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QC	Lot: 428973)									
FJ2200581-005	Anonymous	lead, total	7439-92-1	E420	0.0189 mg/L	0.02 mg/L	94.5	70.0	130	

Canada Toll Free: 1 800 668 9878

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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

1. If any water samples are taken from a Regulated Drinking Water (DW) Systam, please submit using an Authorized DW COC form. Failure to complete all portions of this form may delay analysis. Please fill in this form LEGBLY. By the use of this form the user adknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy. WHITE - LABORATORY COPY YELLOW - CLIENT COPY



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Client : Vancouver School Board

Contact : Stephen Thomas

Address : 1549 Clark Drive

Vancouver BC Canada V5L 3L4

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Project : Sexsmith

PO : ----

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Account Manager : Tasnia Tarannum

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Dan Nguyen Team Leader - Inorganics Metals, Edmonton, Alberta

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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

>: 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

	Client sample ID		 	 	
Matrix:					
	Sampling date/time		 	 	
	Sub-Matrix			 	
Analyte	CAS Number Unit		 	 	
	-				

Please refer to the General Comments section for an explanation of any qualifiers detected.

 Page
 : 3 of 3

 Work Order
 : VA22A4676

Client : Vancouver School Board

Project : Sexsmith



No Breaches Found

lead, total 7439-92-1 mg/L



Vancouver BC Canada V5L 3L4

QUALITY CONTROL INTERPRETIVE REPORT

Work Order : VA22A4676 Page : 1 of 6

Client : Vancouver School Board Laboratory : Vancouver - Environmental

Contact : Stephen Thomas Account Manager : Tasnia Tarannum

Address : 1549 Clark Drive Address : 8081 Lougheed Highway

Burnaby, British Columbia Canada V5A 1W9

Telephone : ---- Telephone : +1 604 253 4188

 Project
 : Sexsmith
 Date Samples Received
 : 07-Mar-2022 15:20

 PO
 : --- Issue Date
 : 14-Mar-2022 11:01

C-O-C number : 20-985895

 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

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 Services 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 : VA22A4676

Client : Vancouver School Board

Project : Sexsmith



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.

Method Sampling Date Extraction / Preparation Preparation Preparation Date Extraction / Preparation Preparation Date Rec Actual Analysis Date Holding Times Rec Actual Actual Analysis Date Holding Times Rec Actual Actual Analysis Date Holding Times Rec Actual Actual Analysis Date Holding Times Rec Actual Analysis Date Holding Times Rec Actual Actual Analysis Date Holding Times Rec Actual Actual Actual Analysis Date Analysis Date Actual Actual Analysis Date Actual Actual Actual Analysis Date Actual Actual	Eval ✓
Total Metals : Total Metals in Water by CRC ICPMS	✓
Total Metals : Total Metals in Water by CRC ICPMS	√
HDPE - total (lab preserved) S.S. D.F. Rm. 227 Sexsmith E420 07-Mar-2022 11-Mar-2022 180 4 days days 4 days days 4 days	√
S.S. D.F. Rm. 227 Sexsmith E420 07-Mar-2022 11-Mar-2022 180 days 4 days	√
Total Metals : Total Metals in Water by CRC ICPMS	√
Total Metals : Total Metals in Water by CRC ICPMS HDPE - total (lab preserved) Sink D.F. Rm. 226 Sexsmith E420 07-Mar-2022 11-Mar-2022 180 4 days days	
HDPE - total (lab preserved) Sink D.F. Rm. 226 Sexsmith	
Sink D.F. Rm. 226 Sexsmith E420 07-Mar-2022 11-Mar-2022 180 days 4 days	
Total Metals : Total Metals in Water by CRC ICPMS	
Total Metals : Total Metals in Water by CRC ICPMS	
HDPE - total (lab preserved) E420 07-Mar-2022 11-Mar-2022 180 4 days	
Sink D.F. Rm. 232 Sexsmith E420 07-Mar-2022 11-Mar-2022 180 4 days	
100	✓
	•
days	
Total Metals: Total Metals in Water by CRC ICPMS	
HDPE - total (lab preserved)	
Sink D.F. Rm. 233 Sexsmith E420 07-Mar-2022 11-Mar-2022 180 4 days	✓
days	
Total Metals: Total Metals in Water by CRC ICPMS	
HDPE - total (lab preserved)	
Sink D.F. Rm. 234 Sexsmith E420 07-Mar-2022 11-Mar-2022 180 4 days	✓
days	
Total Metals: Total Metals in Water by CRC ICPMS	
HDPE - total (lab preserved)	
Sink D.F. Rm. 235 Sexsmith E420 07-Mar-2022 11-Mar-2022 180 4 days	✓
days	
Total Metals: Total Metals in Water by CRC ICPMS	
HDPE - total (lab preserved)	
Sink D.F. Rm. 236 Sexsmith E420 07-Mar-2022 11-Mar-2022 180 4 days	✓
days	

Page : 4 of 6
Work Order : VA22A4676

Client : Vancouver School Board

Project : Sexsmith



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

Analyte Group	Method	Sampling Date	Ex	traction / Pr	reparation			Analys		
Container / Client Sample ID(s)		,	Preparation	Holding	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) Sink D.F. Rm. 237 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180	4 days	√
OHR D.I. MH. 207 GEASHING	L420	07-Wai-2022					11-Wai-2022	days	4 days	Ť
Total Metals : Total Metals in Water by CRC ICPMS									'	
HDPE - total (lab preserved)										
Sink D.F. Rm. 238 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS									'	
HDPE - total (lab preserved)										
Sink D.F. Rm. 241 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Sink D.F. Rm. 242 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS									'	
HDPE - total (lab preserved)										
Sink D.F. Rm. 243 Sexsmith	E420	07-Mar-2022					11-Mar-2022	180 days	4 days	✓

Legend & Qualifier Definitions

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

Page : 5 of 6
Work Order : VA22A4676

Client : Vancouver School Board

Project : Sexsmith



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 specific											
Quality Control Sample Type		C	ount	Frequency (%)								
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation					
Laboratory Duplicates (DUP)												
Total Metals in Water by CRC ICPMS	E420	429646	1	20	5.0	5.0	✓					
Laboratory Control Samples (LCS)												
Total Metals in Water by CRC ICPMS	E420	429646	1	20	5.0	5.0	✓					
Method Blanks (MB)												
Total Metals in Water by CRC ICPMS	E420	429646	1	20	5.0	5.0	✓					
Matrix Spikes (MS)												
Total Metals in Water by CRC ICPMS	E420	429646	1	20	5.0	5.0	✓					

Page : 6 of 6 Work Order : VA22A4676

Client : Vancouver School Board

Project : Sexsmith



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.
	Edmonton -			
	Environmental			Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered
				by this method.



:VA22A4676

QUALITY CONTROL REPORT

Client : Vancouver School Board

Contact : Stephen Thomas
Address : 1549 Clark Drive

Vancouver BC Canada V5L 3L4

Telephone : --

Work Order

Project : Sexsmith

PO :----

C-O-C number : 20-985895

Sampler : RL
Site :---Quote number :--No. of samples received : 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 : 07-Mar-2022 15:20

Date Analysis Commenced : 09-Mar-2022

Issue Date : 14-Mar-2022 11:01

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 Percentage Difference (RPD) and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

: 12

- Reference Material (RM) Report; Recovery and Acceptance Limits
- Method Blank (MB) Report; Recovery and Acceptance Limits
- Laboratory Control Sample (LCS) Report; Recovery and Acceptance Limits

Signatories

No. of samples analysed

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

Dan Nguyen Team Leader - Inorganics Metals, Edmonton, Alberta

Page : 2 of 3
Work Order : VA22A4676

Client : Vancouver School Board

Project : Sexsmith



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 Services number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percentage 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: 429646)											
VA22A4675-001	Anonymous	lead, total	7439-92-1	E420	0.000050	mg/L	0.00124	0.00120	2.97%	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: 429646)						
lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	

Page : 3 of 3 Work Order : VA22A4676

Client : Vancouver School Board

Project : Sexsmith



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: 429646)										
lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	97.2	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							Matrix Spil	ke (MS) Report		
				Spike		Recovery (%)	Recovery Limits (%)			
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QC	Lot: 429646)									
VA22A4675-002	Anonymous	lead, total	7439-92-1	E420	0.0207 mg/L	0.02 mg/L	104	70.0	130	



Canada Toll Free: 1 800 668 9878

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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to compile 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. YELLOW - CLIENT COPY

Results Summary VA	22A4674											
Project	Sexsmith											
Report To	Stephen Thomas, Vano	couver School	Board									
Date Received	07-Mar-2022 15:20											
Issue Date	14-Mar-2022 10:52											
Amendment	0											
Client Sample ID			S.S. D.F. Entry 200 Rm. 207 Sexsmith	S.S. D.F. Rm. 142 Sexsmith	Sink D.F. Rm. 103 Sexsmith	Sink D.F. Rm. 104 Sexsmith	Sink D.F. Rm. 105 Sexsmith	Sink D.F. Rm. 110 Sexsmith	Sink D.F. Rm. 106 Sexsmith	Sink D.F. Rm. 112 Sexsmith	Sink D.F. Rm. 111 Sexsmith	Sink D.F. Rm. 113 Sexsmith
Date Sampled			07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022
Time Sampled			07:43	07:46	07:47	07:50	07:52	08:01	08:03	08:06	08:08	08:08
ALS Sample ID			VA22A4674-001	VA22A4674-002	VA22A4674-003	VA22A4674-004	VA22A4674-005	VA22A4674-006	VA22A4674-007	VA22A4674-008	VA22A4674-009	VA22A4674-010
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
Total Metals (Matrix: Water)												
lead, total	0.000050	mg/L	0.000218	0.000271	0.000733	0.000504	0.000353	0.00130	0.00108	0.000555	0.00120	0.000490

Results Summary VA			T		+	 	+	<u>+</u> '	<u>+</u> '	+	+	+	+	+
			<u> </u>	 		 	+'	+	+	+	+'	+	+	+
Project	Sexsmith		'	ļ		ļ	 	 '	 	 '	<u> </u>	 	<u> </u>	
Report To	Stephen Thomas, Vano	couver School F	3oard			<u> </u>	<u> </u>	'	<u> </u>	'	<u> </u>			
Date Received	07-Mar-2022 15:20					<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	
Issue Date	14-Mar-2022 11:02		<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
Amendment	0					'						'	'	
						'						'	'	
			Sink D.F. Rm. 235	Sink D.F. Rm. 234	Sink D.F. Rm. 236	Sink D.F. Rm. 237	Sink D.F. Rm. 233	Sink D.F. Rm. 238	Sink D.F. Rm. 232	S.S. D.F. Rm. 227	Sink D.F. Rm. 241	Sink D.F. Rm. 226	Sink D.F. Rm. 242	Sink D.F. Rm. 243
Client Sample ID			Sexsmith	Sexsmith	Sexsmith	Sexsmith	Sexsmith	Sexsmith	Sexsmith	Sexsmith	Sexsmith	Sexsmith	Sexsmith	Sexsmith
Date Sampled			07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022	07-Mar-2022
Time Sampled			07:07	07:12	07:17	07:20	07:22	07:24	07:28	07:28	07:32	07:35	07:38	07:40
ALS Sample ID			VA22A4676-001	VA22A4676-002	VA22A4676-003	VA22A4676-004	VA22A4676-005	VA22A4676-006	VA22A4676-007	VA22A4676-008	VA22A4676-009	VA22A4676-010	VA22A4676-011	VA22A4676-012
Analyte	Lowest	Units	Sub-Matrix:	Sub-Matrix:	Sub-Matrix:	Sub-Matrix:	Sub-Matrix:	Sub-Matrix:	Sub-Matrix:	Sub-Matrix:	Sub-Matrix:	Sub-Matrix:	Sub-Matrix:	Sub-Matrix:
Analyte	Detection Limit		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Total Metals (Matrix: Water)				<u> </u>		<u> </u>	<u> </u>				<u> </u>	 	 	
lead, total	0.000050	mg/L	0.000733	0.000632	0.000779	0.000950	0.000920	0.00193	0.00213	0.000884	0.00109	0.000826	0.000562	0.000777