

Date:18-SEP-19PO No.:1517879WO No.:L2344650LSD:CORR 300 DFSample ID:CORR 300 DFSampled By:ROBIN LEMAYDate Collected:10-SEP-19Lab Sample ID:L2344650-1Matrix:WATER

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals						
Lead (Pb)-Total	0.000297		mg/L	0.005		18-SEP
DWQG = Health Canada Guideline Limits updated	JUNE 2019					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only furbidity guideline based on membrane filtration. For immary Table of Guidelines for Canadian Drinking Wa blank entry designates no known limit. A shaded value in the Results column exceeds CDWC	y. If present as N guidelines on cor ater Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration plea	se see
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MILIA						
Edward Ngai						
Account Manager						

ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700 ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company



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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000158		mg/L	0.005		18-SEP-1
DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Turbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	guidelines on con iter Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager						

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Date:18-SEP-19PO No.:1517879WO No.:L2344650LSD:Image: Single JacobiaProject Ref:SIR JOHN FRANKLIN ELEMENTARYSample ID:RM 112 DFSampled By:ROBIN LEMAYDate Collected:10-SEP-19Lab Sample ID:L2344650-3Matrix:WATER

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Fotal Metals Lead (Pb)-Total	0.000432		mg/L	0.005		18-SEP-
DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Furbidity guideline based on membrane filtration. For mmary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	guidelines on con iter Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	ection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager						

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Date:18-SEP-19PO No.:1517879WO No.:L2344650LSD:Image: Sing John FRANKLIN ELEMENTARYSample ID:RM 105 FSSampled By:ROBIN LEMAYDate Collected:10-SEP-19Lab Sample ID:L2344650-4Matrix:WATER

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000080		mg/L	0.005		18-SEP-1
DWQG = Health Canada Guideline Limits updated	JUNE 2019					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Turbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWC	guidelines on con ater Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	ection limit. arth filtration plea	se see
antis						
Approved by Edward Ngai Account Manager						

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Guidelines & Objectives

Health Canada MAC Health Related Criteria Limits

Nitrate/Nitrite-N*	Criteria limit is 10 mg/L (1.0 mg/L if present as all Nitrite-N). High concentrations may contribute to blue baby syndrome in infants.
Lead*	A cumulative body poison, uncommon in naturally occurring hard waters.
Fluoride*	Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth).
Total Coliforms*	Criteria is 0 CFU/100mL. Adverse health effects.
E. Coli*	Criteria is 0 CFU/100 mL. Certain E. Coli bacteria can be life threatening.
Manganese*	Criteria limit is 0.12 mg/L. Possible neurological effects in infants.

*Health Canada Canadian Drinking Water Quality Guidelines (MAC limit)

Aesthetic Objective Conce	entration Levels
Alkalinity	Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate.
Balance	Quality control parameter ratioing cations to anions
Bicarbonate	See Alkalinity. Report as the anion HCO3-1
Carbonate	See Alkalinity. Reported at the anion CO3-2
Calcium	See Hardness. Common major cation of water chemistry.
Chloride	Common major anion of water chemistry.
Conductance	Physical test measuring water salinity (dissolved ions or solids)
Hardness	Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in water if carbonates/bicarbonates are present (if >200 mg/L). For drinking water purposes waters with results <200 mg/L are considered acceptable, results >200 mg/L are considered poor but can be tolerated. Results >500 mg/L are unacceptable.
Hydroxide	See alkalinity
Magnesium	See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action.
рН	Measure of water acidity/alkalinity. Normal range is 7.0-8.5.
Potassium	Common major cation of water chemistry.
Sodium	Common major cation of water chemistry. Measure of salinity (saltiness).
Sulphate	Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action.
Total Dissolved Solids	A measure of water salinity.
Iron Heterotrophic	Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air.
Plate Count	Criteria is 500 cfu/mL Measure of heterotrophic bacteria present.

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION. Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



s-3.

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

Canada Toll Free: 1 800 668 9878



COC Number: 17 - 763422

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Page of

Report To Contact and company name below will appear on the final report	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)					
company: Vancouver School Board	Select Report Format: 🛛 PDF 🗌 EXCEL EDD (DIGITAL)	Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply				
Contact: Stephen Thomas	Quality Control (QC) Report with Report	2 4 day [P4-20%]				
Phone: 604-713-5637	Compare Results to Criteria on Report - provide details below if box checked	호 🚦 3 day [P3-25%] 🛄 🛛 🚆 Same Day, Weekend or Statutory holiday [E2 -200% 🚽				
Company address below will appear on the final report	Select Distribution: 📈 EMAIL MAIL 🗌 FAX	표 월 2 day [P2-50%] 🔄 🖉 (Laboratory opening fees may apply)]				
Street: 1549 Clark Drive	Email 1 or Fax 55 thomas @vsb.bc.ca	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm				
City/Province: Vancouver BC.		for tasts that can not be performed according to the service level selected, you will be contacted.				
Postal Code:	Email 3	Analysis Request				
Invoice To Same as Report To X YES NO	Invoice Distribution	0 Indicate Filterad (F), Preserved (P) or Filterad and Preserved (F/P) below				
Copy of Invoice with Report YES NO	Select Invoice Distribution: 🔀 EMAIL 🗋 MAIL 🔲 FAX	NUMBER OF CONTAINERS MORE OF CONTAINERS SAMPLES ON HOLD Statute of the prant do to the pran				
Company:	Email 1 or Fax 55 thomas @ vsb.bc.ch					
Contact:	Email 2 rlemay @ vsb.bc.ca	5 T ⁸ / ₂				
Project Information	Oil and Gas Required Fields (client use)	5 Z 📲				
ALS Account # / Quote #:	AFE/Cost Center: PO#	δ Ο 🖗				
100#: Sir John Franklin Elementary		ບ				
PO / AFE:	Requisitioner:	Ů <u> </u>				
LSD:	Location:					
ALS Lab Work Order # (lab use only):	ALS Contact: Sampler: Robin					
	Lenay	▝▋▁▎▁▁▁▁ਗ਼				
ALS Sample # * Sample Identification and/or Coordinates (lab use only) (This description will appear on the report)	Date Time Sample Type					
(This description this appear on the reporty						
Corr 300 DF	10-09-19 1:52pm water					
Corr 200 DF	10-09-19 1:56 pm water					
Kn. 1/2 DF	10-09-19 2:01 pm water					
Rm. 105 FS	10-09-19 2:05 pm water					
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Special instructions / Specify Criteria to add on report by clicking on the drop-down list below		SAMPLE CONDITION AS RECEIVED (lab use only)				
		rozen SIF Observations Yes No				
Are samples taken from a Régulated DW System?	ce Packs 🖾 Ice Cubes 🔲 Custody seał intact Yes 🔲 No 🗌					
Are samples for human consumption/use? No Reservatives added		Cooling Initiated				
Are samples for human consumption/ use?	erver, ves e	INIITIAL COOLER TEMPERATURES *C FINAL COOLER TEMPERATURES *C				
YES NO						
SHIPMENT RELEASE (client use) Released by: Date: Time:	INITIAL SHIPMENT RECEPTION (lab use only) Received by: Date:	FINAL SHIPMENT RECEPTION (lab use only)				
Released by: Date: Time:	Received by: Date:	Time: Received by: JA- Date: 91 to Time: 2,28				
REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION	WHITE - LABORATORY COPY YELLOW	- CLIENT COPY				

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.