

Date: 16-SEP-19 **PO No.:** 1517879 WO No.: L2343129

LSD:

Project Ref: EDITH CAVELL Sample ID: RM. 207 DF Sampled By: Robin Lenay Date Collected: 06-SEP-19 Lab Sample ID: L2343129-1 Matrix: Water

PAGE 1 of 6

Test Description Res	sult Qualifier	Units of	CDWQG	A = 4l= 4! =	
rest description Res	out Qualifici	Measure	Aesthetic Objective	Date Analyzed	
Total Metals Lead (Pb)-Total 0.00	00993	mg/L	0.005		11-SEP-19
CDWQG = Health Canada Guideline Limits updated JUN	E 2019				

- \* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit.
- \* Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality
- A blank entry designates no known limit.
- A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.

Approved by

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





**Date:** 16-SEP-19 **PO No.:** 1517879 **WO No.:** L2343129

LSD:

Project Ref: EDITH CAVELL Sample ID: RM. 106 DF Sampled By: Robin Lenay Date Collected: 06-SEP-19 Lab Sample ID: L2343129-2 Matrix: Water

PAGE 2 of 6

Test Description	Result	Qualifier	Units of Measure	Aesthetic Objective	Date Analyzed	
Total Metals Lead (Pb)-Total	0.00336		mg/L	0.005		11-SEP-19
CDWQG = Health Canada Guideline Limits updated	JUNE 2019					
		l	l			

- \* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit.
- \* Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality
- A blank entry designates no known limit.
- A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.

Approved by

Edward Ngai Account Manager

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Date:16-SEP-19PO No.:1517879WO No.:L2343129

LSD:

Project Ref: EDITH CAVELL Sample ID: RM. 023 DF Sampled By: Robin Lenay Date Collected: 06-SEP-19 Lab Sample ID: L2343129-3

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Watrix. Wate	ei	PAGE	3 of 6
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00165		mg/L	0.005		11-SEP-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For Summary 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 ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager

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**Date:** 16-SEP-19 **PO No.:** 1517879 **WO No.:** L2343129

LSD:

Project Ref: EDITH CAVELL Sample ID: RM. 031 SSDF Sampled By: Robin Lenay

Date Collected: 06-SEP-19
Lab Sample ID: L2343129-4

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix. wate	el	PAGE	4 of 6
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000136		mg/L	0.005		11-SEP-19
CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only.  * Turbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking War - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQC	juidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager

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VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

**Date:** 16-SEP-19 **PO No.:** 1517879 **WO No.:** L2343129

LSD:

Project Ref: EDITH CAVELL Sample ID: RM. 002 SSDF Sampled By: Robin Lenay

Date Collected: 06-SEP-19
Lab Sample ID: L2343129-5

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	5 of 6
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000660		mg/L	0.005		11-SEP-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ  Approved by  Edward Ngai	guidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

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 Concentration 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.

pH 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 Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air.

Heterotrophic

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.

# ALS Environmental

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

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COC Number: 17 - 756171

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Canada Toll Free: 1 800 668 9878

·	www.disglopal.com																		
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