

**VANCOUVER SCHOOL BOARD Maintenance and Construction** 1549 Clark Drive

**Date:** 16-OCT-19 **PO No.:** 1517879 **WO No.:** L2362043

LSD:

Project Ref: SHAUGHNESSY ELEMENTARY Sample ID: CORR 210 RM.213 SSDF

Sampled By: ROBIN LEMAY

Date Collected: 08-OCT-19 Lab Sample ID: L2362043-1 Matrix: WATER

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: WAT	ER	PAGE	1 of 5
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000117		mg/L	0.005		11-OCT-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 commany Table of Guidelines for Canadian Drinking War - 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





VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive Vancouver BC V5L 3L4 **Date:** 16-OCT-19 **PO No.:** 1517879 **WO No.:** L2362043

LSD:

Project Ref: SHAUGHNESSY ELEMENTARY

Sample ID: CORR 110 RM 112 FS

Sampled By: ROBIN LEMAY
Date Collected: 08-OCT-19
Lab Sample ID: L2362043-2

Matrix: WATER

Vancouver BC V5L 3L4 ATTN: Stephen Thomas		Watik. WA	PAGE	2 of 5		
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000116		mg/L	0.005		11-OCT-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 cor iter Quality	ventional treatm	ent and slow sand			ase see
Approved by Edward Ngai	_					

Account Manager





VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4
ATTN: Stephen Thomas

**Date:** 16-OCT-19 **PO No.:** 1517879 **WO No.:** L2362043

LSD:

Project Ref: SHAUGHNESSY ELEMENTARY

Sample ID: CORR 100 RM 115 DF

Sampled By: ROBIN LEMAY

Date Collected: 08-OCT-19

Lab Sample ID: L2362043-3

Matrix: WATER

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Wattia. WA	IEK	PAGE	3 of 5
Test Description	Result	Qualifier	CDWQG MAC	Aesthetic Objective	Date Analyzed	
Total Metals  Lead (Pb)-Total	0.000300		mg/L	0.005		11-OCT-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 CDWC	guidelines on cor ater Quality	ventional treatm	ent and slow sand			ase see
Edward Ngai						

Account Manager





VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4
ATTN: Stephen Thomas

**Date:** 16-OCT-19 **PO No.:** 1517879 **WO No.:** L2362043

LSD:

Project Ref: SHAUGHNESSY ELEMENTARY

Sample ID: RM 114 DF
Sampled By: ROBIN LEMAY
Date Collected: 08-OCT-19
Lab Sample ID: L2362043-4

Matrix: WATER

Vancouver BC V5L 3L4 ATTN: Stephen Thomas		PAGE 4										
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed						
Total Metals Lead (Pb)-Total	0.000718		mg/L	0.005		12-OCT-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 g Summary Table of Guidelines for Canadian Drinking War  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQC  Approved by  Edward Ngai	juidelines on con ter Quality	ventional treatm	ent and slow sand			ase see						

Account Manager



## **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.

Criteria limit is 0.12 mg/L. Possible neurological effects in infants. Manganese\*

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

#### **Aesthetic Objective Concentration Levels**

Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate. Alkalinity

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

See Hardness. Common major cation of water chemistry. Calcium

Common major anion of water chemistry. Chloride

Conductance Physical test measuring water salinity (dissolved ions or solids)

Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in Hardness

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.

See alkalinity Hydroxide

Magnesium See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action.

Measure of water acidity/alkalinity. Normal range is 7.0-8.5.

рΗ 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.

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

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.



# Chain of Custody (COC) / Analytical Request Form



COC Number: 17 - 756188

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Canada Toll Free: 1 800 668 9878

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Phone:	604-713-5637		Compare Results to Criteria on Report - provide details below if box checked					3 day [P3-25%] Same Day, Weekend or Statutory holiday [E2 -200						-200%	_										
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