

VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive Vancouver BC V5L 3L4 Date: 15-SEP-17
PO No.: 0000132962
WO No.: L1988743
LSD:

Project Ref:

Sample ID: CARN 140 SS DF

Sampled By:

**Date Collected:** 08-SEP-17 **Lab Sample ID:** L1988743-7

Matrix: Water

Fountain no longer in service

	Test Description	大大技术	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals	ead (Pb)-Total		0.000959		mg/L	0.01		14-SEP-1
CDWQG for N Turbidity guide ummary Table A blank entry	Alth Canada Guideline Li Nitrate+Nitrite-N is the lim eline based on membrane e of Guidelines for Canad designates no known limi ue in the Results column o	it for nitrate only. e filtration. For g ian Drinking Wat t.	uidelines on cor ler Quality	itrate then the lin	ent and slow sand	N.D. = less than de or diatomaceous e	lection limit. arth filtration plea	se see
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VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive Vancouver BC V5L 3L4 Date: 15-SEP-17 PO No.: 0000132962 WO No.: L1988743

LSD: Project Ref:

Sample ID: CARN 101 DF

Sampled By:

Date Collected: 08-SEP-17 Lab Sample ID: L1988743-8

Matrix: Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals						
Lead (Pb)-Total	0.00361		mg/L	0.01		14-SEP-1
*						
WQG = Health Canada Guideline Limits updated	DECEMBER	2015				
DWQG for Nitrate+Nitrite-N is the limit for nitrate only urbidity guideline based on membrane filtration. For mmary Table of Guidelines for Canadian Drinking Wablank entry designates no known limit.  shaded value in the Results column exceeds CDWQ	guidelines on con ter Quality	nventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration ple	ase see
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Heather McKenzie Account Manager						
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VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive Vancouver BC V5L 3L4 Date: 15-SEP-17 PO No.: 0000132962 WO No.: L1988743

LSD: Project Ref:

Sample ID: CARN 123 DF

Sampled By:

Date Collected: 08-SEP-17 Lab Sample ID: L1988743-9

Matrix: Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.00278		mg/L	0.01		14-SEP-1
DWQG = Health Canada Guideline Limits updated	DECEMBER	2015				
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 A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	guidelines on co iter Quality	nventional treatm	ient and slow sand o	I.D. = less than de or diatomaceous e	etection limit. Parth filtration plea	se see
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Approved by Heather McKenzie						
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.

Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth). Fluoride\* 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.

\*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

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.

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

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.

Manganese Elevated levels may cause staining of laundry and porcelain.

Heterotrophic

Carbonate

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.