

Date: 06-OCT-17 PO No.: 0000132962 WO No.: L1999378

LSD:

Project Ref:

Sample ID: TECH 702D DF

Sampled By:

Date Collected: 28-SEP-17

Lab Sample ID: L1999378-1 Matrix: Water Fountain no

longer in service

PAGE 1 of 11

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.0426		mg/L	0.01		05-OCT-1
DWQG = Health Canada Guideline Limits updated	DECEMBER	2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only urbidity guideline based on membrane filtration. For gmmary Table of Guidelines for Canadian Drinking Was blank entry designates no known limit. Shaded value in the Results column exceeds CDWQ6	juidelines on con ter Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration ple	ase see
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Date: 06-OCT-17 PO No.: 0000132962 WO No.: L1999378

LSD: Project Ref:

Sample ID: TECH 602 BUB

Sampled By:

Date Collected: 28-SEP-17 Lab Sample ID: L1999378-2

Matrix: Water

PAGE 2 of 11

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00121		mg/L	0.01		05-OCT-1
DWQG = Health Canada Guideline Limits updated DWQG for Nitrate+Nitrite-N is the limit for nitrate only. Turbidity guideline based on membrane filtration. For guideline prinking Water and the signature of Canadian Drinking Water and the signates of the signature of Canadian Drinking Water and Canadian Drinking Wate	uidelines on cor er Quality	Nitrate then the lin	ent and slow sand	N.D. = less than de l or diatomaceous e	tection limit. arth filtration ple	ase see
pproved by Heather McKenzie Account Manager	_					
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Date: 06-OCT-17 PO No.: 0000132962 WO No.: L1999378

LSD:

Project Ref:

Sample ID: TECH 311 DF

Sampled By:

Date Collected: 28-SEP-17 Lab Sample ID: L1999378-3

Matrix: Water

PAGE 3 of 11

Total Metals Lead (Pb)-Total DECEMBER 2015 DECEMBER 2015 Turbididy guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration pit summary Table of Guidelines for Canadian Drinking Water Quality A blank entry designates no known limit. A shaded value in the Results column exceeds CDWOG MAC and/ or Aesthetic Objective. Approved by Hather McKenzie Account Manager	Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
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 pleummary 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 Approved by Heather McKenzie	-Total	0.000264		mg/L	0.01		05-OCT-
Heather McKenzie	litrite-N is the limit for nitrate sed on membrane filtration. lelines for Canadian Drinkin les no known limit.	e only. If present as I For guidelines on co g Water Quality	Nitrate then the li inventional treatn	nent and slow sar	r N.D. = less than de nd or diatomaceous e	etection limit. Parth filtration ple	ase see
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Date: 06-OCT-17 PO No.: 0000132962 WO No.: L1999378

LSD:

Project Ref:

Sample ID: TECH 322 FCDF

Sampled By:

Date Collected: 28-SEP-17 Lab Sample ID: L1999378-4

Matrix: Water

PAGE 4 of 11

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals						à:
Lead (Pb)-Total	0.000426		mg/L	0.01		05-OCT-
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 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 o	l.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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Date: 06-OCT-17 PO No.: 0000132962 WO No.: L1999378

LSD:

Project Ref:

Sample ID: TECH 421 DF

Sampled By:

Date Collected: 28-SEP-17 Lab Sample ID: L1999378-5

Matrix: Water

PAGE 5 of 11

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000443		mg/L	0.01		05-OCT-
DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. Turbidity guideline based on membrane filtration. For gu ummary Table of Guidelines for Canadian Drinking Wate A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQG	idelines on cor er Quality	litrate then the lin	ent and slow sand	I.D. = less than de or diatomaceous e	tection limit. arth filtration ple	ase see
Approved by Heather McKenzie Account Manager	=					





Date: 06-OCT-17 PO No.: 0000132962 WO No.: L1999378

LSD:

Project Ref:

Sample ID: TECH 411 FS

Sampled By:

Date Collected: 28-SEP-17 Lab Sample ID: L1999378-6

Matrix: Water

PAGE 6 of 11

Test Description	Result	Qualifler	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.00264		mg/L	0.01	٠	05-OCT-1
DWQG = Health Canada Guideline Limits updated	DECEMBER	2015				4:
DWQG for Nitrate+Nitrite-N is the limit for nitrate only urbidity guideline based on membrane filtration. For gammary Table of Guidelines for Canadian Drinking Wablank entry designates no known limit. shaded value in the Results column exceeds CDWQ	guidelines on co ter Quality	nventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration ple	ase see
Approved by Heather McKenzie Account Manager	_			*		
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Date: 06-OCT-17 PO No.: 0000132962 WO No.: L1999378

LSD:

Project Ref:

Sample ID: TECH 605 BUB

Sampled By:

Date Collected: 28-SEP-17 **Lab Sample ID:** L1999378-7

Matrix: Water

PAGE 7 of 11

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00596		mg/L	0.01		05-OCT-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 gummary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	juidelines on cor ter Quality	litrate then the lir entional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration ple	ase see
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Date: 06-OCT-17 PO No.: 0000132962 WO No.: L1999378

LSD: Project Ref:

Sample ID: TECH C 808 DF

Sampled By:

Date Collected: 28-SEP-17 Lab Sample ID: L1999378-8

Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals						
Lead (Pb)-Total	0,00147		mg/L	0.01		05-OCT-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 gummary Table of Guidelines for Canadian Drinking Wate blank entry designates no known limit. A shaded value in the Results column exceeds CDWQG	uidelines on co er 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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Date: 06-OCT-17 PO No.: 0000132962 WO No.: L1999378

LSD:

Project Ref:

Sample ID: TECH 703E DF

longer in service

Fountain no

Sampled By:

Date Collected: 28-SEP-17

Lab Sample ID: L1999378-9 Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.0191		mg/L	0.01		05-OCT-17
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	juidelines on con ter Quality	trate then the lin ventional treatm	ent and slow sai	or N.D. = less than del and or diatomaceous e	ection limit. arth filtration ple	ase see
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e e	41			251		



Date: 06-OCT-17 PO No.: 0000132962 WO No.: L1999378

LSD:

Project Ref:

Sample ID: TECH 700A FS

Sampled By:

Date Collected: 28-SEP-17 Lab Sample ID: L1999378-10

Matrix: Water

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Test Description	Result	Qualifler	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00249		mg/L	- 0.01		05-OCT-1
CDWQG = Health Canada Guideline Limits updated	DECEMBER	2015				
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 Wat A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQC	uidelines on cor er 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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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.

A cumulative body poison, uncommon in naturally occurring hard waters.

Fluoride*

Lead*

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.

*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

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.

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.

Manganese Elevated levels may cause staining of laundry and porcelain.

Heterotrophic

nΗ

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.