



WATER UTILITY

KEY TREATED DRINKING WATER PARAMETERS 2018

SAMPLE LOCATION: ENTERING THE DISTRIBUTION SYSTEM

Treated Water Parameter	Units	Drinking Water Annual Average	Limit / Guideline as defined by Alberta Environment & Parks or the Guidelines for Canadian Drinking Water Quality (2017)
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GENERAL WATER CHEMISTRY

Colour	TCU	1	≤15
pH		7.97	6.5 – 8.5
Turbidity	NTU	0.07	<5
Chlorine Residual	mg/L	2.13	≥0.1 and ≤ 3.0

INORGANIC PARAMETERS

Aluminum	mg/L	0.110	<0.1
Arsenic	mg/L	0.001	0.010
Barium	mg/L	0.10	1.0
Cadmium	mg/L	0.00004	0.005
Calcium	mg/L	54.3	No limit
Chromium	mg/L	0.0006	0.05
Copper	mg/L	0.0010	≤1.0
Iron	mg/L	<0.1	≤0.3
Lead	mg/L	<0.0005	0.010
Magnesium	mg/L	16.5	No limit
Manganese	mg/L	0.011	≤0.05
Mercury	mg/L	0.000028	<0.001
Nitrate	mg/L	0.6	45
Nitrite	mg/L	0.05	3
Potassium	mg/L	1.7	No limit
Sodium	mg/L	13.5	≤200
Sulfate	mg/L	63	≤500
Zinc	mg/L	0.004	≤5.0
Fluoride	mg/L	0.65	(AEP: ≥0.6 and ≤ 0.8) (CDWQ MAC : 1.5mg/L)
Hardness (as CaCO ₃)	mg/L	210	No limit
Total Dissolved Solids	mg/L	246	≤500
Total (5) Haloacetic Acids	mg/L	0.020	0.08 (yearly running average)
Chlorate	mg/L	0.1	1
Chlorite	mg/L	<0.1	1
Total Trihalomethanes	mg/L	0.018	0.1

SAMPLE LOCATION: VARIOUS LOCATIONS WITHIN THE DISTRIBUTION SYSTEM

Treated Water Parameter	Units	Drinking Water Annual Average	Limit as defined by AEP
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INORGANIC PARAMETERS

Turbidity	NTU	0.42	No limit
Chlorine Residual	mg/L	1.77	≥0.1 and ≤ 3.0

MICROBIOLOGICAL

Parameter	Samples Collected	Samples Tested	Neg	Pos	% Pos
Total Coliform	1375	1367	1367	0	0.00

NOTE: A positive is thoroughly investigated and corrective actions employed where possible; typically this indicates an issue with the sample rather than contamination within the Distribution System.

SAMPLE LOCATION: SAMPLED WITH-IN DISTRIBUTION SYSTEM (AT LONGEST DETENTION TIME)

Treated Water Parameter	Units	Ave	Guideline Guidelines for Canadian Drinking Water Quality (2017)
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DISINFECTION BY PRODUCTS

Total Trihalomethanes	mg/L	0.025	0.1
Total (5) Haloacetic Acids	mg/L	0.028	0.08 (yearly running average)

NOTE: the parameters given in the above tables are specific to the testing sample location. These parameters may vary at different locations throughout the distribution system.