



WATER UTILITY

KEY TREATED DRINKING WATER PARAMETERS YYYY

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 (2022)
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GENERAL WATER CHEMISTRY

Colour	TCU	1	≤15
pH		8.07	6.5 – 8.5
Turbidity	NTU	0.053	<5
Chlorine Residual	mg/L	2.17	≥0.1 and ≤ 3.0

INORGANIC PARAMETERS

Aluminum	mg/L	0.069	2.9
Arsenic	mg/L	<0.001	0.010
Barium	mg/L	0.091	2.0
Cadmium	mg/L	<0.000016	0.007
Calcium	mg/L	55.8	No limit
Chromium	mg/L	0.0010	0.05
Copper	mg/L	0.0012	2.0
Iron	mg/L	0.017	≤0.3
Lead	mg/L	0.00010	0.005
Magnesium	mg/L	18.4	No limit
Manganese	mg/L	0.0021	0.12
Mercury	mg/L	<0.00001	<0.001
Nitrate	mg/L	<0.5	45
Nitrite	mg/L	<0.05	3
Potassium	mg/L	1.54	No limit
Sodium	mg/L	17.2	≤200
Sulfate	mg/L	75.3	≤500
Zinc	mg/L	0.0075	≤5.0
Fluoride	mg/L	0.58	(AEP: ≥0.6 and ≤ 0.8) (CDWQ MAC : 1.5mg/L)
Hardness (as CaCO ₃)	mg/L	215.2	No limit
Total Dissolved Solids	mg/L	280.3	≤500
Total (5) Haloacetic Acids	mg/L	0.027	0.08 (yearly running average)
Chlorate	mg/L	<0.1	1
Chlorite	mg/L	<0.1	1
Total Trihalomethanes	mg/L	0.022	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	1.02	<5
Chlorine Residual	mg/L	1.84	≥0.1 and ≤ 3.0

MICROBIOLOGICAL

Parameter	Samples Collected	Samples Tested	Neg	Pos	% Pos
Total Coliform	1474	1451	1447	4	0.28

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	Drinking Water Annual Average	Guideline Guidelines for Canadian Drinking Water Quality (2022)
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DISINFECTION BY PRODUCTS

Total Trihalomethanes	mg/L	0.021	0.1
Total (5) Haloacetic Acids	mg/L	0.026	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.