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KEY TREATED DRINKING WATER PARAMETERS 2024

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)
GENERAL WATER CHEMISTRY			
Colour	TCU	1	≤15
рН		8.09	6.5 – 8.5
Turbidity	NTU	0.060	<5
Chlorine Residual	mg/L	2.16	≥0.1 and ≤ 3.0
INORGANIC PARAMETERS			
Aluminum	mg/L	0.090	2.9
Arsenic	mg/L	<0.001	0.010
Barium	mg/L	0.093	2.0
Cadmium	mg/L	< 0.000016	0.007
Calcium	mg/L	53.9	No limit
Chromium	mg/L	0.0008	0.05
Copper	mg/L	0.002	2.0
Iron	mg/L	0.017	≤0.3
Lead	mg/L	<0.0001	0.005
Magnesium	mg/L	18.0	No limit
Manganese	mg/L	0.003	0.12
Mercury	mg/L	0.00002	<0.001
Nitrate	mg/L	<0.5	45
Nitrite	mg/L	<0.05	3
Potassium	mg/L	1.43	No limit
Sodium	mg/L	14.9	≤200
Sulfate	mg/L	71.2	≤500
Zinc	mg/L	<0.004	≤5.0
Fluoride	mg/L	0.059	(AEP: ≥0.6 and ≤ 0.8) (CDWQ MAC : 1.5mg/L)
Hardness (as CaCO₃)	mg/L	208.7	No limit
Total Dissolved Solids	mg/L	293.9	≤500
Total (5) Haloacetic Acids	mg/L	0.026	0.08 (yearly running average)
Chlorate	mg/L	0.10	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
INORGANIC PARAMETERS			
Turbidity	NTU	0.36	<5
Chlorine Residual	mg/L	1.75	≥0.1 and ≤ 3.0

MICROBIOLOGICAL

Parameter	Samples Collected	Samples Tested	Neg	Pos	% Pos
Total Coliform	1351	1350	1350	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)

SAME LE LOCATION. SAME LES WITH IN SISTAISON STOTEM (AT LONG LOT DETERMINE)			
Treated Water Parameter	Units	Drinking Water Annual Average	Guideline Guidelines for Canadian Drinking Water Quality (2022)
DISINFECTION BY PRODUCTS			
Total Trihalomethanes	mg/L	0.024	0.1
Total (5) Haloacetic Acids	mg/L	0.035	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.