

City of Red Deer Water Quality – August 2019

In House Testing: Treated Discharge

Parameter	Units	Monthly Ave
PH	mg/L	7.99
Turbidity	NTU	0.05
Total Chlorine	mg/L	2.15
Alkalinity	mg/L	146

Bacteriological Testing: Various sites within the Distribution System

Total Samples Analyzed	# Pos. for Total Coliforms	# Pos. for E. coli	# Neg.	Ave. Turbidity (NTU)	Ave Total Chlorine (mg/L)
111	0	0	111	0.37	1.76
100%					

Sub Contracted Testing: Treated Discharge

Parameter	Units	Value	GCDWQ MAC
Fluoride	mg/L	0.07	1.5
Chloride	mg/L	4	A/O ≤ 250
Nitrate	mg/L	4	45
Nitrite	mg/L	<0.05	3
Total Ammonia (as N)	mg/L	0.29	NR
Sulfate	mg/L	76	A/O ≤ 500
Sulfide	mg/L	<0.02	A/O ≤ 0.05
Total Cyanide	mg/L	<0.002	0.2
Total Dissolved Solids	mg/L	250	A/O ≤ 500
Total Hardness (mg CaCO ₃ /L)	mg/L	174	NR
Total Trihalomethanes	mg/L	0.030	0.1
Total Aluminum	mg/L	0.036	OG <0.1
Total Arsenic	mg/L	<0.001	0.010 (ALARA)
Total Barium	mg/L	0.10	1
Total Boron	mg/L	0.01	5

Parameter	Units	Value	GCDWQ MAC
Total Cadmium	mg/L	<0.00005	0.005
Total Calcium	mg/L	48.2	NR
Total Chromium	mg/L	<0.0005	0.05
Total Copper	mg/L	0.0012	A/O ≤ 1.0
Total Iron	mg/L	<0.1	A/O ≤ 0.3
Total Lead	mg/L	<0.001	0.005(ALARA)
Total Manganese	mg/L	<0.005	0.12 AO ≤ 0.02
Total Magnesium	mg/L	13.0	NR
Total Mercury	mg/L	<0.000025	0.001
Total Phosphorus	mg/L	<0.08	NR
Total Potassium	mg/L	1.5	NR
Total Selenium	mg/L	<0.0005	0.05
Total Sodium	mg/L	19.3	A/O ≤ 200
Total Uranium	mg/L	<0.001	0.02
Total Zinc	mg/L	0.002	A/O ≤ 5.0

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GCDWQ – Guidelines for Canadian Drinking Water Quality

MAC – Maximum Acceptable Concentration

AO – Aesthetic Objective

OG – Operational Guidance

ALARA – As Low As Reasonably Achievable

NR – No Requirement as per GCDWQ