

City of Red Deer

Water Quality – September 2019

For more information Contact:
Website: www.reddeer.ca
Phone: 403.342.8750
Email: environmentalservices@reddeer.ca

In House Testing: Treated Discharge

Parameter	Units	Monthly Ave
PH	mg/L	7.96
Turbidity	NTU	0.05
Total Chlorine	mg/L	2.11
Alkalinity	mg/L	159

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)
114	0	0		0.46	1.77
100%					

Sub Contracted Testing: Treated Discharge

Parameter	Units	Value	GCDWQ MAC
Fluoride	mg/L	0.10	1.5
Chloride	mg/L	4	A/O ≤ 250
Nitrate	mg/L	<0.5	45
Nitrite	mg/L	<0.05	3
Total Ammonia (as N)	mg/L	<0.05	NR
Sulfate	mg/L	54	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	165	A/O ≤ 500
Total Hardness (mg CaCO ₃ /L)	mg/L	193	NR
Total Trihalomethanes	mg/L	0.024	0.1
Total Aluminum	mg/L	0.120	OG <0.1
Total Arsenic	mg/L	<0.001	0.010 (ALARA)
Total Barium	mg/L	0.11	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	50.9	NR
Total Chromium	mg/L	0.0020	0.05
Total Copper	mg/L	0.0009	A/O ≤ 1.0
Total Iron	mg/L	<0.1	A/O ≤ 0.3
Total Lead	mg/L	<0.0001	0.005(ALARA)
Total Manganese	mg/L	<0.005	0.12 AO ≤ 0.02
Total Magnesium	mg/L	16.0	NR
Total Mercury	mg/L	<0.000025	0.001
Total Phosphorus	mg/L	<0.08	NR
Total Potassium	mg/L	1.0	NR
Total Selenium	mg/L	0.0006	0.05
Total Sodium	mg/L	10.3	A/O ≤ 200
Total Uranium	mg/L	<0.001	0.02
Total Zinc	mg/L	0.003	A/O ≤ 5.0

Report ID 19R516117

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