



CITY OF FORT ST JOHN
TREATED WATER QUALITY ANALYSIS
 2024



SAMPLED FROM WATER TREATMENT PLANT

PARAMETER	UNITS	R.D.L.	GUIDELINE	ANALYSIS RESULTS		AVERAGE
				3-Jul	4-Dec	
Calculated Parameters						
Hardness (CaCO3)	mg/L	0.5	<500	193	160	176.5
Dissolved Nitrate (N)	mg/L	0.01	MAC 10	<.005	<.005	<.005
Dissolved Nitrite (N)	mg/L	0.033	MAC 1	0.028	0.195	0.1115
Misc. Inorganics						
Conductivity	uS/cm	2	N/A	420	330	375
pH	pH	N/A	7.0-10.5	7.79	7.9	7.845
Total Dissolved Solids	mg/L	10	AO ≤500	250	200	225
Anions						
Alkalinity (PP as CaCO3)	mg/L	1	N/A	<1.0	<1	<1.0
Alkalinity (Total as CaCO3)	mg/L	1	N/A	160	140	150
Bicarbonate (HCO3)	mg/L	1	N/A	190	170	180
Carbonate (CO3)	mg/L	1	N/A	<1.0	<1	<1.0
Hydroxide (OH)	mg/L	1	N/A	<1.0	<1	<1.0
Dissolved Chloride (Cl)	mg/L	1	AO ≤250	<1.0	1.3	<1.0
Dissolved Fluoride (F)	mg/L	0.05	MAC 1.5	0.43	0.65	0.54
Dissolved Sulphate (SO4)	mg/L	1	N/A	51	29	40
Microbiological Param.						
E.Coli DST	MPN/100mL	1	<1	0	0	0
Total Coliforms DST	MPN/100mL	1	<1	0	0	0
Nutrients						
Dissolved Nitrate plus Nitrite (N)	mg/L	0.02		0.028	0.195	0.1115
Physical Properties						
True Colour	Col. units	2	AO≤15	<2.0	<2	<2.0
Turbidity	NTU	0.1	≤0.3	0.1	<0.1	<0.1
Elements						
Total Mercury (Hg)	ug/L	0.0019	1	<0.0019	<0.0019	<0.0019
Total Aluminum (Al)	ug/L	3.0	MAC 2900	<3	<3	<3
Total Antimony (Sb)	ug/L	0.50	MAC 6	<0.5	<0.5	<0.5
Total Arsenic (As)	ug/L	0.10	MAC 10	<0.1	0.12	0.11
Total Barium (Ba)	ug/L	1.0	MAC 2000	83.2	80.4	81.8
Total Boron (B)	ug/L	50.0	MAC 5000	<50	<50	<50
Total Cadmium (Cd)	ug/L	0.010	MAC 7	<.010	<.01	<.01
Total Chromium (Cr)	ug/L	1.0	MAC 50	<1.0	<1.0	<1.0
Total Cobalt (Co)	ug/L	<0.20		<0.2	<0.2	<0.2
Total Copper (Cu)	ug/L	5.11	MAC 2000	249	6.29	127.645
Total Iron (Fe)	ug/L	5.0	AO ≤300	<5.0	<5.0	<5.0
Total Lead (Pb)	ug/L	0.20	MAC 5	0.55	<0.20	0.375
Total Manganese (Mn)	ug/L	1.0	MAC 120	<1.0	<1.0	<1.0
Total Molybdenum (Mo)	ug/L	1.0		<1.0	1.2	1.1
Total Nickel (Ni)	ug/L	1.0		<1.0	<1.0	<1.0
Total Selenium (Se)	ug/L	0.10	MAC 50	0.26	0.42	0.34
Total Silicon (Si)	ug/L	100.0		2720	2630	2675
Total Silver (Ag)	ug/L	0.020		<.02	<0.020	<0.020
Total Strontium (Sr)	ug/L	1.0	MAC 7000	158	157	157.5
Total Sulphur (S)	ug/L	3.0		12.9	9.5	11.2
Total Uranium (U)	ug/L	0.10	MAC 20	0.58	0.59	0.585
Total Vanadium (V)	ug/L	5.0		<5.0	<5.0	<5.0
Total Zinc (Zn)	ug/L	5.0	AO≤5000	<5.0	<5.0	<5.0
Total Calcium (Ca)	mg/L	0.05		57.6	48.1	52.85
Total Magnesium (Mg)	mg/L	0.050		12	9.57	10.785
Total Potassium (K)	mg/L	0.050		0.73	0.728	0.729
Total Sodium (Na)	mg/L	0.050	AO≤200	5.16	3.57	4.365

MAC = Maximum Allowable Concentration
 RDL = Reportable Detection Limit
 AO = Aesthetic Objective
 OG = Operational Guidance Value
 ALARA = As low as reasonably achievable

Testing prepared by Bureau Veritas Laboratories.