



CITY OF FORT ST. JOHN
TREATED WATER ANALYSIS
 2019



SAMPLED FROM WATER TREATMENT PLANT

PARAMETER	UNITS	M.D.L.	GUIDELINE	ANALYSIS RESULTS		AVERAGE
				Mar 27	01-Oct	
Anions						
Nitrite (N)	mg/L	0.005	MAC 1	<0.0050	<0.0050	<0.0050
Nitrate (N)	mg/L	0.02	MAC 10	0.047	0.01	0.029
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	0.5	<500	193	204	198.5
Inorganics						
Strong Acid Dissoc. Cyanide (CN)	mg/L	0.0005	MAC 0.20	<0.00050	<0.00050	<0.00050
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.0005	MAC 0.20	<0.00050	<0.00050	<0.00050
Fluoride (F)	mg/L	0.02	MAC 1.5	0.58	0.5	0.54
Alkalinity (Total as CaCO3)	mg/L	1	N/A	164	150	157
Alkalinity (PP as CaCO3)	mg/L	1	N/A	<1.0	<1.0	<1.0
Bicarbonate (HCO3)	mg/L	1.00	N/A	200	190	195
Carbonate (CO3)	mg/L	1	N/A	<1.0	<1.0	<1.0
Hydroxide (OH)	mg/L	1	N/A	<1.0	<1.0	<1.0
Anions						
Dissolved Sulphate (SO4)	mg/L	1.00	N/A	50.1	36.0	43.1
Dissolved Chloride (Cl)	mg/L	1	AO ≤250	2.3	2.4	2.4
Miscellaneous						
True Colour	Col. Unit	5	AO≤15	<5.0	<5.0	<5.0
Nutrients						
Nitrate plus Nitrite (N)	mg/L	0.02		0.047	0.01	0.029
Physical Properties						
Conductivity	uS/cm	2	N/A	412.0	370	391
pH			7.0-10.5	7.85	8.03	7.94
Total Dissolved Solids	mg/L	10	AO ≤500	228	220	224
Turbidity	NTU	0.10	≤0.3	0.17	0.05	0.11
Total Metals						
Total Aluminum (Al)	ug/L	3	AO 100	5.2	1.5	3.35
Total Antimony (Sb)	ug/L	0.5	MAC 6.0	<0.50	<0.50	<0.50
Total Arsenic (As)	ug/L	0.1	Mac 10	0.12	0.13	0.125
Total Barium (Ba)	ug/L	1	Mac 1000	91.9	95.2	93.6
Total Boron (B)	ug/L	50	MAC 5000	<50	<50	<50
Total Cadmium (Cd)	ug/L	0.01	MAC 5.0	<0.010	<0.010	<0.010
Total Chromium (Cr)	ug/L	1	MAC 50	<1.0	<1.0	<1.0
Total Cobalt (Co)	ug/L	0.2	N/A	<0.20	<0.20	<0.20
Total Copper (Cu)	ug/L	0.2	AO ≤1000	5.06	49.90	27.48
Total Iron (Fe)	ug/L	5	AO ≤300	<5.0	<5.0	<5.0
Total Lead (Pb)	ug/L	0.2	MAC 5	0.1	0.29	0.195
Total Manganese (Mn)	ug/L	1	AO ≤50	<1.0	<1.0	<1.0
Total Molybdenum (Mo)	ug/L	1	MAC 250	0.05	1.1	0.575
Total Nickel (Ni)	ug/L	1	N/A	<1.0	<1.0	<1.0
Total Selenium (Se)	ug/L	0.1	MAC 50	0.51	0.150	0.330
Total Silver (Ag)	ug/L	0.02	N/A	<0.020	<0.020	<0.020
Total Uranium (U)	ug/L	0.1	MAC 20	0.79	0.69	0.74
Total Vanadium (V)	ug/L	5	N/A	<5.0	<5.0	<5.0
Total Zinc (Zn)	ug/L	5	AO ≤5000	<5.0	<5.0	<5.0
Total Calcium (Ca)	mg/L	0.05	200	58.6	62.1	60.4
Total Magnesium (Mg)	mg/L	0.05	AO ≤0.05	11.4	11.8	11.6
Total Potassium (K)	mg/L	0.05	N/A	0.776	0.858	0.817
Total Sodium (Na)	mg/L	0.05	AO ≤200	4.72	5.03	4.875
Total Sulphur (S)	mg/L	3	N/A	15.3	14.1	14.7
Elements						
Total Mercury (Hg)	ug/L	0.01	MAC 1	<0.0020	<0.0020	<0.0020
Microbiological						
Total Coliforms	CFU/100mL	N/A	MAC 0	0	0.0	0.0
E. coli	CFU/100mL	N/A	MAC 0	0	0.0	0.0

MAC = Maximum Allowable Concentration
 MDL = Method Detection Limit / Lowest Detectable Concentration
 AO = Aesthetic Objective

Testing prepared by MAXXAM Laboratories.