



CITY OF FORT ST. JOHN
TREATED WATER ANALYSIS
 2020



SAMPLED FROM WATER TREATMENT PLANT

PARAMETER	UNITS	M.D.L.	GUIDELINE	ANALYSIS RESULTS		AVERAGE
				Mar 04	Nov 05	
Anions						
Nitrite (N)	mg/L	0.005	MAC 1	<0.0050	<0.01	
Nitrate (N)	mg/L	0.02	MAC 10	0.020	0.015	
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	0.5	<500	210	180	
Inorganics						
Strong Acid Dissoc. Cyanide (CN)	mg/L	0.0005	MAC 0.20	<0.00050	<0.00050	
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.0005	MAC 0.20	<0.00050	<0.00050	
Dissolved Fluoride (F)	mg/L	0.05	MAC 1.5	0.56	0.84	
Alkalinity (Total as CaCO3)	mg/L	1	N/A	170	170	
Alkalinity (PP as CaCO3)	mg/L	1	N/A	<1.0	<1.0	
Bicarbonate (HCO3)	mg/L	1	N/A	210	210	
Carbonate (CO3)	mg/L	1	N/A	<1.0	<1.0	
Hydroxide (OH)	mg/L	1	N/A	<1.0	<1.0	
Anions						
Dissolved Sulphate (SO4)	mg/L	1	N/A	55	31.0	
Dissolved Chloride (Cl)	mg/L	1	AO ≤250	2.2	2.2	
Miscellaneous						
True Colour	Col. Unit	5	AO≤15	<5.0	<2.0	
Nutrients						
Nitrate plus Nitrite (N)	mg/L	0.02		0.020	0.015	
Physical Properties						
Conductivity	uS/cm	2	N/A	430	360	
pH	pH		7.0-10.5	7.93	7.82	
Total Dissolved Solids	mg/L	10	AO ≤500	230	220	
Turbidity	NTU	0.10	≤0.3	0.15	<1.0	
Total Metals						
Total Aluminum (Al)	ug/L	3	AO 100	<3.0	5	
Total Antimony (Sb)	ug/L	0.5	MAC 6.0	<0.50	<0.60	
Total Arsenic (As)	ug/L	0.1	Mac 10	0.11	<0.20	
Total Barium (Ba)	ug/L	1	Mac 1000	104	83	
Total Boron (B)	ug/L	50	MAC 5000	<50	<20	
Total Cadmium (Cd)	ug/L	0.01	MAC 5.0	<0.010		
Total Chromium (Cr)	ug/L	1	MAC 50	<1.0	<1.0	
Total Cobalt (Co)	ug/L	0.2	N/A	<0.20	<0.30	
Total Copper (Cu)	ug/L	0.2	AO ≤1000	52.8	55.0	
Total Iron (Fe)	ug/L	5	AO ≤300	<5.0	60	
Total Lead (Pb)	ug/L	0.2	MAC 5	0.31	0.25	
Total Manganese (Mn)	ug/L	1	MAC 120	<1.0	<4.0	
Total Molybdenum (Mo)	ug/L	1	MAC 250	<1.0	1.2	
Total Nickel (Ni)	ug/L	1	N/A	<1.0	0.67	
Total Selenium (Se)	ug/L	0.1	MAC 50	0.23	0.330	
Total Silicon (Si)	ug/L	100		3050	2900	
Total Silver (Ag)	ug/L	0.02	N/A	<0.020	<0.10	
Total Strontium (Sr)	ug/L	1		187	150	
Total Uranium (U)	ug/L	0.1	MAC 20	0.76	0.86	
Total Vanadium (V)	ug/L	5	N/A	<5.0	<1.0	
Total Zinc (Zn)	ug/L	5	AO ≤5000	<5.0	4.2	
Total Calcium (Ca)	mg/L	0.05	200	62.2	55.0	
Total Magnesium (Mg)	mg/L	0.05		13.3	10.0	
Total Potassium (K)	mg/L	0.05	N/A	0.826	0.80	
Total Sodium (Na)	mg/L	0.05	AO ≤200	5.84	4.30	
Total Sulphur (S)	mg/L	3	N/A	16.9	9.3	
Elements						
Total Mercury (Hg)	ug/L	<0.0019	MAC 1	<0.0019	<0.0019	
Microbiological						
Total Coliforms	CFU/100mL	N/A	MAC 0	0	0.0	
E. coli	CFU/100mL	N/A	MAC 0	0	0.0	

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