



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

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

Testing prepared by MAXXAM Laboratories.