



CITY OF FORT ST. JOHN
TREATED WATER ANALYSIS
2017



SAMPLED FROM WATER TREATMENT PLANT

PARAMETER	UNITS	M.D.L.	GUIDELINE	ANALYSIS RESULTS 2017			
				APR 05	SEP 21		
ANIONS							
Nitrite (N)	mg/L	0.0050	MAC 3.0	<0.0010	<0.0050		
Calculated Parameters							
Total Hardness (CaCO ₃)	mg/L	0.50	<500	194	187		
Nitrate (N)	mg/L	0.020	MAC 45	0.026	0.025		
Misc. Inorganics							
Strong Acid Dissoc. Cyanide (CN)	mg/L	0.00050	MAC 0.20	<0.00050	<0.00050		
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00050			<0.00050		
Fluoride (F)	mg/L	0.020	MAC 1.50	0.811	0.800		
Alkalinity (Total as CaCO ₃)	mg/L	1.0	N/A	159	162		
Alkalinity (PP as CaCO ₃)	mg/L	1.0	N/A	<2.0	<1.0		
Bicarbonate (HCO ₃)	mg/L	1.0	N/A	159	197		
Carbonate (CO ₃)	mg/L	1.0	N/A	<1.0	<1.0		
Hydroxide (OH)	mg/L	1.0	N/A	<1.0	<1.0		
Anions							
Dissolved Sulphate (SO ₄)	mg/L	1.0	N/A	40.2	36.2		
Dissolved Chloride (Cl)	mg/L	1.0	AO ≤250	1.97	2.1		
MISCELLANEOUS							
True Colour	Col. Unit	5.0	AO ≤15		<5.0		
Nutrients							
Nitrate plus Nitrite (N)	mg/L	0.020			0.025		
Physical Properties							
Conductivity	uS/cm	2.0	N/A	378	378		
pH	pH		7.0-10.5	8.13	8.22		
Total Dissolved Solids	mg/L	10	AO ≤500	182	204		
Turbidity	NTU	0.10	≤0.3		<0.10		
Elements							
Total Mercury (Hg)	ug/L	0.010	MAC 1.0	<0.020	<0.010		
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	3.0	AO 100	<10	<3.0		
Total Antimony (Sb)	ug/L	0.50	MAC 6.0	<0.50	<0.50		
Total Arsenic (As)	ug/L	0.10	MAC 10	<1.0	0.13		
Total Barium (Ba)	ug/L	1.0	N/A	94	105		
Total Boron (B)	ug/L	50	MAC 5000	<100	<50		
Total Cadmium (Cd)	ug/L	0.010	MAC 5.0	<0.20	<0.010		
Total Chromium (Cr)	ug/L	1.0	MAC 50	<2.0	<1.0		
Total Cobalt (Co)	ug/L	0.20	N/A	<1.0	<0.20		
Total Copper (Cu)	ug/L	0.20	AO ≤1000	5.5	46.3		
Total Iron (Fe)	ug/L	5.0	AO ≤300	<30	<5.0		
Total Lead (Pb)	ug/L	0.20	MAC 10	<1.0	0.25		
Total Manganese (Mn)	ug/L	1.0	AO ≤50	<2.0	<1.0		
Total Molybdenum (Mo)	ug/L	1.0	MAC 250	<1.0	1.1		
Total Nickel (Ni)	ug/L	1.0	N/A	<1.0	<1.0		
Total Selenium (Se)	ug/L	0.10	MAC 50	<1.0	0.15		
Total Silver (Ag)	ug/L	0.020	N/A	<0.10	<0.020		
Total Uranium (U)	ug/L	0.10	MAC 20	0.81	0.78		
Total Vanadium (V)	ug/L	5.0	N/A	<5.0	<5.0		
Total Zinc (Zn)	ug/L	5.0	AO ≤5000	<50	<5.0		
Total Calcium (Ca)	mg/L	0.050	200	57.7	56.8		
Total Magnesium (Mg)	mg/L	0.050	AO ≤0.05	12.2	11.0		
Total Potassium (K)	mg/L	0.050	N/A	<2.0	0.810		
Total Sodium (Na)	mg/L	0.050	AO ≤200	4.8	4.73		
Total Sulphur (S)	mg/L	3.0	N/A	14.9	12.4		
Microbiological Parameters							
Total Coliforms	CFU/100mL	N/A	MAC 0	0	0		
E. coli	CFU/100mL	N/A	MAC 0	0	0		
				ALS Laboratory	MAXXAM Laboratory		

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

Testing prepared by MAXXAM Laboratories.