



**CITY OF FORT ST. JOHN**  
**TREATED WATER ANALYSIS**  
**2012**



**SAMPLED FROM WATER TREATMENT PLANT**

PARAMETER	UNITS	M.D.L.	GUIDELINE	ANALYSIS RESULTS				AVERAGE
				23-Jan	Apr	Aug	Nov	
Conductivity	uS/cm	2	N/A	346				346
Hardness (as CaCO3)	mg/L	0.5	<500	188				188
pH	pH	0.1	AO 6.5 - 8.5	8.16				8.16
Total Dissolved Solids	mg/L	10	AO ≤500	199				199
Anion Sum	meq/L	-	N/A	3.92				3.92
Cation Sum	meq/L	-	N/A	3.95				3.95
Cation - Anion Balance	%	-	N/A	0.4				0.4
Alkalinity, Bicarbonate (as CaCO3)	mg/L	2	N/A	155				155
Alkalinity, Carbonate (as CaCO3)	mg/L	2	N/A	<2.0				<2.0
Alkalinity, Hydroxide (as CaCO3)	mg/L	2	N/A	<2.0				<2.0
Alkalinity, Phenolphthalein (as CaCO3)	mg/L	2	N/A	<2.0				<2.0
Alkalinity, Total (as CaCO3)	mg/L	2.00	N/A	155				155
Bromide (Br)	mg/L	0.05	N/A	<0.050				<0.050
Chloride (Cl)	mg/L	0.5	AO ≤250	1.75				1.75
Fluoride (F)	mg/L	0.02	MAC 1.50	0.948				0.948
Nitrate (as N)	mg/L	0.005	MAC 45	0.0351				0.0351
Nitrite (as N)	mg/L	0.001	MAC 3.2	<0.0010				<0.0010
Silicate (as SiO2)	mg/L	1.00	N/A	5.55				5.55
Sulfate (SO4)	mg/L	0.5	AO ≤500	34.4				34.4
Cyanide, Total	mg/L	0.005	MAC 0.20	<0.0050				<0.0050
E. coli	MPN/100mL	1	MAC 0.00	<1				<1
Coliform Bacteria - Total	MPN/100mL	1	MAC 0.00	<1				<1
Aluminum (Al)-Total	mg/L	0.01	AO 0.100	<0.010				<0.010
Antimony (Sb)-Total	mg/L	0.0005	MAC 0.100	<0.00050				<0.00050
Arsenic (As)-Total	mg/L	0.001	MAC 0.010	<0.0010				<0.0010
Barium (Ba)-Total	mg/L	0.02	MAC 1.00	0.097				0.097
Beryllium (Be)-Total	mg/L	0.00	N/A	<0.0010				<0.0010
Bismuth (Bi)-Total	mg/L	0.001	N/A	<0.0010				<0.0010
Boron (B)-Total	mg/L	0.1	MAC 5.00	<0.10				<0.10
Cadmium (Cd)-Total	mg/L	0.0002	MAC 0.005	<0.00020				<0.00020
Calcium (Ca)-Total	mg/L	0.1	200	56.3				56.3
Chromium (Cr)-Total	mg/L	0.002	MAC 0.05	<0.0020				<0.0020
Cobalt (Co)-Total	mg/L	0.001	N/A	<0.0010				<0.0010
Copper (Cu)-Total	mg/L	0.001	AO ≤1.00	0.003				0.003
Iron (Fe)-Total	mg/L	0.03	AO ≤0.30	<0.030				<0.030
Lead (Pb)-Total	mg/L	0.001	MAC 0.010	<0.0010				<0.0010
Lithium (Li)-Total	mg/L	0.01	N/A	<0.010				<0.010
Magnesium (Mg)-Total	mg/L	0.1	N/A	11.5				11.5
Manganese (Mn)-Total	mg/L	0.002	AO ≤0.05	<0.0020				<0.0020
Mercury (Hg)-Total	mg/L	0.0002	MAC 0.001	<0.00020				<0.00020
Molybdenum (Mo)-Total	mg/L	0.001	MAC 0.25	0.0011				0.0011
Nickel (Ni)-Total	mg/L	0.001	N/A	<0.0010				<0.0010
Phosphorus (P)-Total	mg/L	0.3	MAC 0.010	<0.30				<0.30
Potassium (K)-Total	mg/L	2	N/A	<2.0				<2.0
Selenium (Se)-Total	mg/L	0.001	MAC 0.010	<0.0010				<0.0010
Silicon (Si)-Total	mg/L	0.05	N/A	2.7				2.7
Silver (Ag)-Total	mg/L	0.0001	MAC 0.050	<0.00010				<0.00010
Sodium (Na)-Total	mg/L	2	AO ≤200	4.4				4.4
Strontium (Sr)-Total	mg/L	0.001	N/A	0.161				0.161
Sulfur (S)-Total	mg/L	0.5	N/A	11.5				11.5
Thallium (Tl)-Total	mg/L	0.001	N/A	<0.0010				<0.0010
Tin (Sn)-Total	mg/L	0.001	N/A	<0.0010				<0.0010
Titanium (Ti)-Total	mg/L	0.01	N/A	<0.010				<0.010
Uranium (U)-Total	mg/L	0.0001	MAC 0.02	0.00075				0.00075
Vanadium (V)-Total	mg/L	0.005	N/A	<0.0050				<0.0050
Zinc (Zn)-Total	mg/L	0.05	AO ≤5.0	<0.050				<0.050
Color, True	CU		5.00					

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

Testing prepared by ALS Laboratories.