



CITY OF FORT ST. JOHN
TREATED WATER ANALYSIS
2014



SAMPLED FROM WATER TREATMENT PLANT

PARAMETER	UNITS	M.D.L.	GUIDELINE	ANALYSIS RESULTS		AVERAGE
				26-Mar	13-Aug	
Physical Tests						
Conductivity	uS/cm	2	N/A	359	354	357
Hardness (as CaCO3)	mg/L	0.5	<500	189	182	186
pH	pH	0.1	AO 6.5 - 8.5	7.93	8.07	8.0
Total Dissolved Solids	mg/L	10	AO ≤500	219	221	220
Anions and Nutrients						
Alkalinity, Bicarbonate (as CaCO3)	mg/L	2	N/A	155	158	157
Alkalinity, Carbonate (as CaCO3)	mg/L	2	N/A	<2.0	<2.0	<2.0
Alkalinity, Hydroxide (as CaCO3)	mg/L	2	N/A	<2.0	<2.0	<2.0
Alkalinity, Phenolphthalein (as CaCO3)	mg/L	2	N/A	<2.0	<2.0	<2.0
Alkalinity, Total (as CaCO3)	mg/L	2.00	N/A	155	158	157
Bromide (Br)	mg/L	0.05	N/A	<0.050	<0.050	<0.050
Chloride (Cl)	mg/L	.5	AO ≤250	1.8	1.68	1.74
Fluoride (F)	mg/L	.02	MAC 1.50	0.964	0.8	0.882
Nitrate (as N)	mg/L	.005	MAC 45	0.0396	0.0461	0.0429
Nitrite (as N)	mg/L	.001	MAC 3.2	<0.0010	<0.0010	<0.0010
Silicate (as SiO2)	mg/L	1	N/A	4.50	6.42	5.46
Sulfate (SO4)	mg/L	.5	AO ≤500	38.5	33.2	35.9
Anion Sum	meq/L		N/A	4.01	3.93	3.97
Cation Sum	meq/L		N/A	3.94	3.81	3.88
Cation - Anion Balance	%		N/A	-0.9	-1.5	-1.2
Cyanides						
Cyanide, Total	mg/L	.005	MAC 0.20	<0.0050	<0.0050	<0.0050
Bacteriological Tests						
E. coli	MPN/100mL	1	MAC 0.00	<1	<1	<1
Coliform Bacteria - Total	MPN/100mL	1	MAC 0.00	<1	<1	<1
Total Metals						
Aluminum (Al)-Total	mg/L	0.01	AO 0.100	<0.010	<0.010	<0.010
Antimony (Sb)-Total	mg/L	0.0005	MAC 0.100	<0.00050	<0.00050	<0.00050
Arsenic (As)-Total	mg/L	0.001	MAC 0.010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	mg/L	0.02	MAC 1.00	0.106	0.102	0.104
Beryllium (Be)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L	0.1	MAC 5.00	<0.10	<0.10	<0.10
Cadmium (Cd)-Total	mg/L	0.0002	MAC 0.005	<0.00020	<0.00020	<0.00020
Calcium (Ca)-Total	mg/L	0.1	200	57.9	55.9	56.9
Chromium (Cr)-Total	mg/L	0.002	MAC 0.05	<0.0020	<0.0020	<0.0020
Cobalt (Co)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Copper (Cu)-Total	mg/L	0.001	AO ≤1.00	0.0074	0.0081	0.0078
Iron (Fe)-Total	mg/L	0.03	AO ≤0.30	<0.030	<0.030	<0.030
Lead (Pb)-Total	mg/L	0.001	MAC 0.010	<0.0010	<0.0010	<0.0010
Lithium (Li)-Total	mg/L	0.01	N/A	<0.010	<0.010	<0.010
Magnesium (Mg)-Total	mg/L	0.1	N/A	10.8	10.3	10.6
Manganese (Mn)-Total	mg/L	0.002	AO ≤0.05	<0.0020	<0.0020	<0.0020
Mercury (Hg)-Total	mg/L	0.0002	MAC 0.001	<0.00020	<0.00020	<0.00020
Molybdenum (Mo)-Total	mg/L	0.001	MAC 0.25	<0.0010	0.0011	0.0011
Nickel (Ni)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Phosphorus (P)-Total	mg/L	0.3	MAC 0.010	<0.30	<0.30	<0.30
Potassium (K)-Total	mg/L	2	N/A	<2.0	<2.0	<2.0
Selenium (Se)-Total	mg/L	0.001	MAC 0.010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L	0.05	N/A	2.51	2.67	2.59
Silver (Ag)-Total	mg/L	0.0001	MAC 0.050	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L	2	AO ≤200	3.8	4	4
Strontium (Sr)-Total	mg/L	0.001	N/A	0.177	0.167	0.172
Sulfur (S)-Total	mg/L	0.5	N/A	12.8	10.8	11.8
Thallium (Tl)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Tin (Sn)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	mg/L	0.01	N/A	<0.010	<0.010	<0.010
Uranium (U)-Total	mg/L	0.0001	MAC 0.02	0.00081	0.00073	0.00077
Vanadium (V)-Total	mg/L	0.005	N/A	<0.0050	<0.0050	<0.0050
Zinc (Zn)-Total	mg/L	0.05	AO ≤5.0	<0.050	<0.050	<0.050
Color, True	CU		5			

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

Testing prepared by ALS Laboratories.