



Average Water Analysis Calendar Year 2017 Lake Michigan Filtration Plant

Parameter	Units	Raw Lake	Plant Tap	Distribution System
Alkalinity (Total as CaCO ₃)	mg/L	121 (113 - 152)	112 (104 - 130)	112 (104 - 129)
Aluminum (Total)	mg/L	0.02 (<0.02 - 0.10)	0.07 (0.02 - 0.18)	-
Calcium	mg/L	47 (36 - 64)	47 (36 - 63)	-
Carbon Dioxide	mg/L	1.3 (0.9 - 2.0)	6.1 (4.2 - 9.5)	-
Chloride (Cl)	mg/L	18.5 (8.1 - 37.1)	18.8 (11.9 - 41.2)	-
Chlorine, Free Available (as Cl ₂)	mg/L	-	1.53 (1.45 - 1.79)	0.96 (0.23 - 1.59)
Coliforms (Total)	CFU/ 100mls	8 (<1 - 233)	<1	<1
Color (True)	Color units	<5 (<5 - 14)	<5	-
Conductivity (@ 25° C)	µmhos/cm	318 (292 - 494)	332 (166 - 412)	-
Fluoride (as F ⁻)	mg/L	0.15 (0.11 - 0.21)	0.71 (0.31 - 0.95)	0.67 (0.12 - 0.87)
Hardness (Total, as CaCO ₃)	mg/L	160 (134 - 222)	160 (130 - 194)	-
Hardness (Total, as CaCO ₃)	grains per gallon	9.4 (8 - 13)	9.4 (8 - 11)	-
Heterotrophic Plate Count	CFU/ml	160 (<1 - >5700)	<1 (<1 - 4)	*98%
Iron (Total, as Fe)	mg/L	0.15 (<0.02 - 0.27)	<0.02 (<0.02 - 0.06)	-
Magnesium	mg/L	10.7 (4.9 - 16.0)	10.9 (4.4 - 15.6)	-
Nitrate (as N)	mg/L	-	0.4	-
Odor (T.O.N.)	T.O.N.	2 (0 - 4)	1 (0 - 3)	-
pH (Ambient)	pH units	8.30 (7.65 - 8.63)	7.61 (7.16 - 7.93)	7.53 (6.68 - 7.84)
Phosphorus (Total, as PO ₄)	mg/L	-	1.90 (1.62 - 2.22)	1.73 (1.15 - 2.10)
Sodium	mg/L	-	10	-
Sulfate (as SO ₄)	mg/L	-	26	-
Total Solids	mg/L	193 (172 - 215)	200 (176 - 228)	-
Turbidity	NTUs	1.4 (0.1 - 37.4)	0.05 (0.02 - 0.30)	-

* Percent of samples when HPC test result was below detection.