Average Water Analysis
Calendar Year 2025
Lake Michigan Filtration Plant

	Parameter	Units	Raw Lake	Plant Tap	Distribution System
Physical and Aggregate Properties	Alkalinity (Total as CaCO3)	mg/L	114 (104 - 128)	107 (101 - 119)	110 (105 - 115)
	Hardness (Total, as CaCO3)	mg/L	143 (130 - 166)	142 (126 - 164)	-
		grains per gallon	8.4 (7.6 - 9.7)	8.3 (7.4 - 9.6)	-
	Temperature	°C	9.3 (.4 - 23.2)	-	17.2 (10.1 - 24.4)
		°F	48.7 (32.7 - 73.7)	-	62.9 (50.2 - 75.9)
	Total Dissolved Solids	mg/L	172.0	174.0	-
	Conductivity (@ 25° C)	µmhos/cm	316.5 (302.5 - 355.6)	337.1 (317.6 - 377.9)	-
Treatment Parameters	Coliforms (Total)	% Present	68.49	0.00	0.00
	Heterotrophic Plate Count (HPC)	% Above 500 CFU/mL	7.40	0.00	0.22
	Chlorine, Free Available (as Cl2)	mg/L	-	1.52 (1.44 - 1.66)	5.71 (0.08 - 57.00)
	Carbon, Total Organic	mg/L	2.17 (1.93 - 2.48)	1.91 (1.63 - 2.26)	-
	Fluoride (as F-)	mg/L	0.150 (0.115 - 0.207)	0.688 (0.554 - 0.854)	0.666 (0.580 - 0.747)
	Phosphorus (Ortho-, as PO4)	mg/L	-	1.25 (1.13 - 1.55)	1.35 (1.13 - 1.60)
Metals	Sodium	mg/L	-	14.0	-
	Aluminum	mg/L	-	0.097	-
	Magnesium	mg/L	12.4 (11.1 - 13.6)	. (11.7 - 13.6)	-
	Calcium	mg/L	38.2 (36.0 - 42.4)	38.3 (36.0 - 42.4)	-
	Iron (Total, as Fe)	mg/L	-	< 0.1	-
Nonmetals	pH (Ambient)	Absolute	8.2 (7.7 - 8.5)	7.5 (7.2 - 7.8)	7.7 (7.2 - 8.0)
	Carbon Dioxide	mg/L	1.6 (0.7 - 2.5)	7.2 (3.3 - 10.1)	-
	Chloride (Cl)	mg/L	15.79 (12.00 - 24.25)	17.26 (14.25 - 26.50)	17.60 (13.00 - 20.25)
	Nitrate (as N)	mg/L	-	0.60	-
	Nitrite (as N)	mg/L	-	< 0.05	-
	Sulfate (as SO4)	mg/L	-	38.4 (28.2 - 51.0)	32.1 (22.6 - 43.4)
General Quality	Odor (T.O.N.)	T.O.N.	2 (0 - 5)	1 (0 - 3)	-
		Most Common	Musty	Not Detectable	-
	Color (True)	Color units	ND*	ND*	-
	Turbidity	NTUs	1.095 (0.200 - 7.800)	0.098 (0.042 - 0.272)	0.353 (0.055 - 1.780)

*ND = Not Detected, or below the method's Minimum Detection Limit.

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