



# Minneapolis Water Works

## Monthly Plant Effluent Water Analysis for:

### October 2024

### Physical and Chemical Water Quality

	<u>Plant Effluent Average Value</u>
Temperature, River Water Average (°C)	17.6
Total Organic Carbon (ppm* as C)	3.47
Total Dissolved Solids (ppm)	148
Turbidity (NTU)	0.05
Alkalinity-Total (ppm as CaCO <sub>3</sub> )	49
Ammonia Nitrogen (ppm as N)	0.96
Total Chloramine Residual (ppm as NH <sub>2</sub> Cl)	4.2
Fluoride-F (ppm as F)	0.71
pH	9.05
Nitrate - NO <sub>3</sub> (ppm as N)	0.48
Nitrite - NO <sub>2</sub> (ppm as N)	<0.015
Phosphate-PO <sub>4</sub> (ppm as PO <sub>4</sub> )	0.72
Sulfate - SO <sub>4</sub> (ppm as SO <sub>4</sub> )	27.7
Total Hardness (grains per gallon) EDTA method	4.9
Total Hardness (ppm as CaCO <sub>3</sub> ) EDTA method	83

### Chemical Water Quality - Inorganic Metals

<u>Chemical Element</u>	<u>Plant Effluent Average Value</u>
Aluminum-Al (ppm as Al)	0.02
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	28.2
Chloride-Cl (ppm as Cl)	35.7
Chromium (ppm as Cr)	<0.01
Copper-Cu (ppm as Cu)	<0.01
Iron-Fe (ppm as Fe)	Not Detected
Lead-Pb (ppm as Pb)	Not Detected
Magnesium-Mg (ppm as Mg)	4.37
Manganese-Mn (ppm as Mn)	<0.01
Silica-Si (ppm as SiO <sub>2</sub> )	6.1
Sodium-Na (ppm as Na)	20.9
Zinc-Zn (ppm as Zn)	<0.01

\*ppm = parts per million