

Minneapolis Water Works Monthly Plant Effluent Water Analysis for:

October 2023

Physical and Chemical Water Quality

	Plant Effluent Average Value
Temperature, River Water Average (°C)	16.4
Total Organic Carbon (ppm* as C)	3.16
Total Dissolved Solids (ppm)	158
Turbidity (NTU)	0.05
Alkalinity-Total (ppm as CaCO ₃)	44
Ammonia Nitrogen (ppm as N)	0.90
Total Chloramine Residual (ppm as NH2Cl)	3.9
Fluoride-F (ppm as F)	0.71
pH	9.06
Nitrate - NO ₃ (ppm as N)	0.40
Nitrite - NO ₂ (ppm as N)	< 0.015
Phosphate-PO ₄ (ppm as PO ₄)	0.69
Sulfate - SO ₄ (ppm as SO ₄)	27.5
Total Hardness (grains per gallon) EDTA method	4.8
Total Hardness (ppm as CaCO ₃) EDTA method	82

Chemical Water Quality - Inorganic Metals

Plant Effluent Average Value

Chemical Element

Aluminum-Al (ppm as Al)	0.03
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	25.5
Chloride-Cl (ppm as Cl)	46.6
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)	3.43
Manganese-Mn (ppm as Mn)	< 0.01
Sillca-Si (ppm as SiO ₂)	7.3
Sodium-Na (ppm as Na)	22.4
Zinc-Zn (ppm as Zn)	< 0.01
*ppm = parts per million	