

Minneapolis Water Works Monthly Plant Effluent Water Analysis for:

November 2016

Physical and Chemical Water Quality

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	Plant Effluent Average Value
Temperature, River Water Average (°C)	8.9
Total Organic Carbon (ppm* as C)	4.04
Total Dissolved Solids (ppm)	164
Turbidity (NTU)	0.07
Alkalinity-Total (ppm as CaCO ₃)	49
Ammonia Nitrogen (ppm as N)	0.81
Chlorine Residual (ppm Cl as Cl ₂)	3.8
Fluoride-F (ppm as F)	0.67
рН	8.91
Nitrate - NO ₃ (ppm as N)	1.12
Nitrite - NO ₂ (ppm as N)	< 0.015
Phosphate-PO ₄ (ppm as PO ₄)	0.84
Sulfate - SO ₄ (ppm as SO ₄)	23.6
Total Hardness (grains per gallon) EDTA	method 4.9
Total Hardness (ppm as CaCO ₃) EDTA m	ethod 83

Chemical Water Quality - Inorganic Metals

Plant Effluent Average Value

Chemical Element

Aluminum-Al (ppm as Al)	0.01
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	28.3
Chloride-Cl (ppm as Cl)	28.7
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)	3.39
Manganese-Mn (ppm as Mn)	< 0.01
Sillca-Si (ppm as Si)	7.45
Sodium-Na (ppm as Na)	13.6
Zinc-Zn (ppm as Zn)	Not Detected
*ppm = parts per million	