



Minneapolis Water Works

Monthly Plant Effluent Water Analysis for:

August 2015

Physical and Chemical Water Quality

	<u>Plant Effluent Average Value</u>
Temperature, River Water Average (°C)	25.6
Total Organic Carbon (ppm* as C)	4.59
Total Dissolved Solids (ppm)	186
Turbidity (NTU)	0.05
Alkalinity-Total (ppm as CaCO ₃)	36
Ammonia Nitrogen (ppm as N)	1.02
Chlorine Residual (ppm Cl as Cl ₂)	3.9
Fluoride-F (ppm as F)	0.72
pH	8.92
Nitrate - NO ₃ (ppm as N)	0.55
Nitrite - NO ₂ (ppm as N)	0.013
Phosphate-PO ₄ (ppm as PO ₄)	0.9
Sulfate - SO ₄ (ppm as SO ₄)	21.1
Total Hardness (grains per gallon) EDTA method	4.5
Total Hardness (ppm as CaCO ₃) EDTA method	77

Chemical Water Quality - Inorganic Metals

	<u>Plant Effluent Average Value</u>
<u>Chemical Element</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)	27.3
Chloride-Cl (ppm as Cl)	29.0
Chromium (ppm as Cr)	<0.01
Copper-Cu (ppm as Cu)	0.02
Iron-Fe (ppm as Fe)	Not Detected
Lead-Pb (ppm as Pb)	Not Detected
Magnesium-Mg (ppm as Mg)	1.41
Manganese-Mn (ppm as Mn)	<0.01
Sillca-Si (ppm as Si)	8.1
Sodium-Na (ppm as Na)	15.6
Zinc-Zn (ppm as Zn)	Not Detected

*ppm = parts per million