

Minneapolis Water Works Monthly Plant Effluent Water Analysis for: August 2015

| Physical and Chemical Water Q | Juality |
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| | Plant Effluent Average Value |
| 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 |
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Chemical Water Quality - Inorganic Metals

Plant Effluent Average Value

Chemical Element

| 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 | |