

**METROPOLITAN UTILITIES DISTRICT OF OMAHA  
REPORT OF WATER ANALYSIS**

Platte West Plant

Monthly Averages

Source: Finished Water

Date: October 2022

Temperature 17.7 °C  
 Turbidity (NTU) 0.04 Units  
 Total Organic Carbon 1.8 mg/L  
 Color 2 Units  
 Dissolved Oxygen (O<sub>2</sub>) 4.5 mg/L  
 Langelier Index 1.31  
 UV-ABS @ 254 nm 4.9 ABS/m  
 Specific Conductance @ 25 °C 411 mmhos  
 Dissolved Solids (Calculated) 334 mg/L

Silica (SiO<sub>2</sub>) 27.3 mg/L

pH 9.05 mg/L

Alkalinity (CaCO<sub>3</sub>)  
 Phenolphthalein (P) 16 mg/L  
 Total (M) 123 mg/L

Total Hardness (CaCO<sub>3</sub>) 141 mg/L  
 Carbonate 123 mg/L  
 Non-carbonate 18 mg/L

Nitrogen (N)  
 Ammonia 0.03 mg/L  
 Nitrite <0.02 mg/L  
 Nitrate 0.44 mg/L

Chlorine (Cl<sub>2</sub>)  
 Free Residual 0.01 mg/L  
 Total Residual 2.49 mg/L

Surfactants (MBAS) - mg/L

Trace Inorganics:  
 Iron (total) <0.02 mg/L  
 Iron (dissolved) - mg/L  
 Manganese (total) <0.02 mg/L  
 Manganese (dissolved) - mg/L

Cations :  
 Calcium (Ca) 42 mg/L  
 Magnesium (Mg) 8.7 mg/L  
 Sodium (Na) 31 mg/L  
 Potassium (K) 9.6 mg/L

Anions :  
 Bicarbonate (HCO<sub>3</sub>) 111 mg/L  
 Carbonate (CO<sub>3</sub>) 19.2 mg/L  
 Hydroxide (OH) <0.1 mg/L  
 Fluoride (F) 0.70 mg/L  
 Chloride (Cl) 16 mg/L  
 Bromide (Br) 0.02 mg/L  
 Nitrite (NO<sub>2</sub>) <0.07 mg/L  
 Nitrate (NO<sub>3</sub>) 1.95 mg/L  
 Phosphate-ortho (PO<sub>4</sub>) 0.30 mg/L  
 Sulfate (SO<sub>4</sub>) 66 mg/L

Trace Inorganics :  
 Aluminum (Al) <0.01 mg/L  
 Copper (Cu) 0.001 mg/L  
 Iron (Fe) <0.02 mg/L  
 Lithium (Li) 0.017 mg/L  
 Manganese (Mn) <0.02 mg/L  
 Strontium (Sr) 0.292 mg/L  
 Zinc (Zn) <0.005 mg/L

Antimony (Sb) <1.0 µg/L  
 Arsenic (As) 3.99 µg/L  
 Barium (Ba) 71.9 µg/L  
 Beryllium (Be) <1.0 µg/L  
 Cadmium (Cd) <1.0 µg/L  
 Chromium (Cr) <1.0 µg/L  
 Lead (Pb) <1.0 µg/L  
 Mercury (Hg) - µg/L  
 Nickel (Ni) 1.15 µg/L  
 Selenium (Se) <5.0 µg/L  
 Thallium (Tl) <1.0 µg/L

Bacteriological Quality : Distribution System  
Meets U.S.E.P.A. drinking water standards:  
TC - 0.34%; E. coli - Absent  
Giardia - N.D. Cryptosporidium - N.D.

Organics :  
 Atrazine - µg/L  
 Metolachlor - µg/L

N. D. = Not Detected

**Brent Paine**  
 Water Analyst