

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

Platte West Plant

Monthly Averages

Source: Finished Water

Date: June 2022

Temperature	<u>16.1</u>	° C
Turbidity (NTU)	<u>0.04</u>	Units
Total Organic Carbon	<u>2.1</u>	mg/L
Color	<u>2</u>	Units
Dissolved Oxygen (O ₂)	<u>7.9</u>	mg/L
Langelier Index	<u>1.16</u>	
UV-ABS @ 254 nm	<u>4.8</u>	ABS/m
Specific Conductance @ 25 °C	<u>439</u>	mmhos
Dissolved Solids (Calculated)	<u>356</u>	mg/L

Silica (SiO₂) 29.5 mg/L

pH 8.90 mg/L

Alkalinity (CaCO₃)
Phenolphthalein (P) 14 mg/L
Total (M) 123 mg/L

Total Hardness (CaCO₃) 149 mg/L
Carbonate 123 mg/L
Non-carbonate 26 mg/L

Nitrogen (N)
Ammonia 0.02 mg/L
Nitrite <0.02 mg/L
Nitrate 0.78 mg/L

Chlorine (Cl₂)
Free Residual 0.02 mg/L
Total Residual 2.46 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

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.

N. D. = Not Detected

Cations :

Calcium	(Ca)	<u>45</u>	mg/L
Magnesium	(Mg)	<u>9.2</u>	mg/L
Sodium	(Na)	<u>31</u>	mg/L
Potassium	(K)	<u>9.4</u>	mg/L

Anions :

Bicarbonate	(HCO ₃)	<u>116</u>	mg/L
Carbonate	(CO ₃)	<u>16.8</u>	mg/L
Hydroxide	(OH)	<u><0.1</u>	mg/L
Fluoride	(F)	<u>0.72</u>	mg/L
Chloride	(Cl)	<u>17</u>	mg/L
Bromide	(Br)	<u>0.02</u>	mg/L
Nitrite	(NO ₂)	<u><0.07</u>	mg/L
Nitrate	(NO ₃)	<u>3.46</u>	mg/L
Phosphate-ortho	(PO ₄)	<u>0.30</u>	mg/L
Sulfate	(SO ₄)	<u>77</u>	mg/L

Trace Inorganics :

Aluminum	(Al)	<u><0.01</u>	mg/L
Copper	(Cu)	<u>0.001</u>	mg/L
Iron	(Fe)	<u><0.02</u>	mg/L
Lithium	(Li)	<u>0.017</u>	mg/L
Manganese	(Mn)	<u><0.02</u>	mg/L
Strontium	(Sr)	<u>0.298</u>	mg/L
Zinc	(Zn)	<u><0.005</u>	mg/L

Antimony	(Sb)	<u><1.0</u>	µg/L
Arsenic	(As)	<u>3.79</u>	µg/L
Barium	(Ba)	<u>72.3</u>	µg/L
Beryllium	(Be)	<u><1.0</u>	µg/L
Cadmium	(Cd)	<u><1.0</u>	µg/L
Chromium	(Cr)	<u><1.0</u>	µg/L
Lead	(Pb)	<u><1.0</u>	µg/L
Mercury	(Hg)	<u>-</u>	µg/L
Nickel	(Ni)	<u>1.06</u>	µg/L
Selenium	(Se)	<u><5.0</u>	µg/L
Thallium	(Tl)	<u><1.0</u>	µg/L

Organics :

Atrazine	<u><0.10</u>	µg/L
Metolachlor	<u>-</u>	µg/L

Brent Paine

Water Analyst