

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

Florence Plant

Monthly Averages

Source: Finished Water

Date: September, 2023

Temperature	<u>23.2</u>	° C
Turbidity (NTU)	<u>0.07</u>	Units
Color	<u>3</u>	Units
Dissolved Oxygen (O ₂)	<u>6.0</u>	mg/L
Langelier Index	<u>1.09</u>	
UV-ABS @ 254 nm	<u>5.7</u>	ABS/m
Total Organic Carbon	<u>2.8</u>	mg/L
Specific Conductance @ 25 °C	<u>682</u>	µmhos
Dissolved Solids (Calculated)	<u>498</u>	mg/L
Silica (SiO ₂)	<u>5.6</u>	mg/L

pH 9.12 Units

Alkalinity (CaCO ₃)		
Phenolphthalein (P)	<u>10</u>	mg/L
Total (M)	<u>67</u>	mg/L

Total Hardness (CaCO ₃)	<u>160</u>	mg/L
Carbonate	<u>67</u>	mg/L
Non-carbonate	<u>93</u>	mg/L

Nitrogen (N)		
Ammonia	<u>0.06</u>	mg/L
Nitrite	<u><0.02</u>	mg/L
Nitrate	<u>0.15</u>	mg/L

Chlorine (Cl ₂)		
Free Residual	<u>0.00</u>	mg/L
Total Residual	<u>2.37</u>	mg/L

Surfactants (MBAS) - mg/L

Radioactivity :		
Gross Alpha (α)	<u>0.4</u>	pCi/L
Beta Emitters (β)	<u>4.4</u>	pCi/L
Radium 226+228	<u>-</u>	pCi/L
Uranium	<u>-</u>	mg/L

Bacteriological Quality : Distribution System

Meets USEPA drinking water standards:

T. coli: 0.70% E. coli: absent

Cryptosporidium: N.D. Giardia: N.D.

N. D. = Not Detected

Cations :		
Calcium	(Ca)	<u>36</u> mg/L
Magnesium	(Mg)	<u>17</u> mg/L
Sodium	(Na)	<u>88</u> mg/L
Potassium	(K)	<u>6.7</u> mg/L

Anions :		
Bicarbonate	(HCO ₃)	<u>57</u> mg/L
Carbonate	(CO ₃)	<u>12</u> mg/L
Hydroxide	(OH)	<u>0.2</u> mg/L
Fluoride	(F)	<u>0.8</u> mg/L
Chloride	(Cl)	<u>18</u> mg/L
Bromide	(Br)	<u>0.03</u> mg/L
Nitrite	(NO ₂)	<u><0.07</u> mg/L
Nitrate	(NO ₃)	<u>0.66</u> mg/L
Phosphate	(PO ₄)	<u><0.10</u> mg/L
Sulfate	(SO ₄)	<u>254</u> mg/L

Trace Inorganics :		
Aluminum	(Al)	<u>0.125</u> mg/L
Copper	(Cu)	<u>0.003</u> mg/L
Iron	(Fe)	<u>0.069</u> mg/L
Lithium	(Li)	<u>0.058</u> mg/L
Manganese	(Mn)	<u><0.001</u> mg/L
Strontium	(Sr)	<u>0.432</u> mg/L
Zinc	(Zn)	<u>0.011</u> mg/L

Antimony	(Sb)	<u>< 1.0</u> µg/L
Arsenic	(As)	<u>1.06</u> µg/L
Barium	(Ba)	<u>25.3</u> µg/L
Beryllium	(Be)	<u>< 1.0</u> µg/L
Cadmium	(Cd)	<u>< 1.0</u> µg/L
Chromium	(Cr)	<u>1.35</u> µg/L
Lead	(Pb)	<u>< 1.0</u> µg/L
Mercury	(Hg)	<u>-</u> µg/L
Nickel	(Ni)	<u>2.87</u> µg/L
Selenium	(Se)	<u>< 5.0</u> µg/L
Thallium	(Tl)	<u>< 1.0</u> µg/L

Organics :

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

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