

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

Florence Plant

Monthly Averages

Source: Finished Water

Date: December, 2023

Temperature	<u>5.3</u>	° C
Turbidity (NTU)	<u>0.07</u>	Units
Color	<u>3</u>	Units
Dissolved Oxygen (O ₂)	<u>8.7</u>	mg/L
Langelier Index	<u>1.06</u>	
UV-ABS @ 254 nm	<u>5.8</u>	ABS/m
Total Organic Carbon	<u>2.8</u>	mg/L
Specific Conductance @ 25 °C	<u>622</u>	µmhos
Dissolved Solids (Calculated)	<u>506</u>	mg/L
Silica (SiO ₂)	<u>8.4</u>	mg/L

pH 9.23 Units

Alkalinity (CaCO ₃)		
Phenolphthalein (P)	<u>14</u>	mg/L
Total (M)	<u>91</u>	mg/L

Total Hardness (CaCO ₃)	<u>188</u>	mg/L
Carbonate	<u>91</u>	mg/L
Non-carbonate	<u>97</u>	mg/L

Nitrogen (N)		
Ammonia	<u><0.05</u>	mg/L
Nitrite	<u><0.02</u>	mg/L
Nitrate	<u>0.42</u>	mg/L

Chlorine (Cl ₂)		
Free Residual	<u>0.00</u>	mg/L
Total Residual	<u>2.06</u>	mg/L

Surfactants (MBAS) - mg/L

Radioactivity :		
Gross Alpha (α)	<u>0.3</u>	pCi/L
Beta Emitters (β)	<u>4.2</u>	pCi/L
Radium 226+228	<u>-</u>	pCi/L
Uranium	<u>-</u>	mg/L

Cations :		
Calcium (Ca)	<u>37</u>	mg/L
Magnesium (Mg)	<u>23</u>	mg/L
Sodium (Na)	<u>79</u>	mg/L
Potassium (K)	<u>6.0</u>	mg/L

Anions :		
Bicarbonate (HCO ₃)	<u>77</u>	mg/L
Carbonate (CO ₃)	<u>17</u>	mg/L
Hydroxide (OH)	<u><0.1</u>	mg/L
Fluoride (F)	<u>0.8</u>	mg/L
Chloride (Cl)	<u>20</u>	mg/L
Bromide (Br)	<u>0.03</u>	mg/L
Nitrite (NO ₂)	<u><0.07</u>	mg/L
Nitrate (NO ₃)	<u>1.88</u>	mg/L
Phosphate (PO ₄)	<u><0.1</u>	mg/L
Sulfate (SO ₄)	<u>235</u>	mg/L

Trace Inorganics :		
Aluminum (Al)	<u>0.092</u>	mg/L
Copper (Cu)	<u>0.002</u>	mg/L
Iron (Fe)	<u>0.068</u>	mg/L
Lithium (Li)	<u>0.055</u>	mg/L
Manganese (Mn)	<u><0.001</u>	mg/L
Strontium (Sr)	<u>0.382</u>	mg/L
Zinc (Zn)	<u><0.005</u>	mg/L

Antimony (Sb)	<u>< 1.0</u>	µg/L
Arsenic (As)	<u><1.0</u>	µg/L
Barium (Ba)	<u>19.9</u>	µg/L
Beryllium (Be)	<u>< 1.0</u>	µg/L
Cadmium (Cd)	<u>< 1.0</u>	µg/L
Chromium (Cr)	<u>1.04</u>	µg/L
Lead (Pb)	<u>< 1.0</u>	µg/L
Mercury (Hg)	<u>-</u>	µg/L
Nickel (Ni)	<u>1.50</u>	µg/L
Selenium (Se)	<u>< 5.0</u>	µg/L
Thallium (Tl)	<u>< 1.0</u>	µg/L

Bacteriological Quality : Distribution System	
<u>Meets USEPA drinking water standards:</u>	
<u>T. coli: 0.00% E. coli: absent</u>	
<u>Cryptosporidium: N.D. Giardia: N.D.</u>	

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

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Chemist II

N. D. = Not Detected