

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

Florence Plant

Monthly Averages

Source: Finished Water

Date: May, 2022

Temperature	<u>17.0</u>	° C
Turbidity (NTU)	<u>0.05</u>	Units
Color	<u>2</u>	Units
Dissolved Oxygen (O <sub>2</sub> )	<u>8.4</u>	mg/L
Langelier Index	<u>0.80</u>	
UV-ABS @ 254 nm	<u>6.3</u>	ABS/m
Total Organic Carbon	<u>2.8</u>	mg/L
Specific Conductance @ 25 °C	<u>634</u>	µmhos
Dissolved Solids (Calculated)	<u>461</u>	mg/L
Silica (SiO <sub>2</sub> )	<u>4.2</u>	mg/L

pH 8.90 Units

Alkalinity (CaCO <sub>3</sub> )		
Phenolphthalein (P)	<u>7</u>	mg/L
Total (M)	<u>59</u>	mg/L

Total Hardness (CaCO <sub>3</sub> )	<u>168</u>	mg/L
Carbonate	<u>59</u>	mg/L
Non-carbonate	<u>109</u>	mg/L

Nitrogen (N)		
Ammonia	<u>0.08</u>	mg/L
Nitrite	<u>&lt;0.02</u>	mg/L
Nitrate	<u>1.11</u>	mg/L

Chlorine (Cl <sub>2</sub> )		
Free Residual	<u>0.00</u>	mg/L
Total Residual	<u>2.40</u>	mg/L

Surfactants (MBAS) - mg/L

Radioactivity :		
Gross Alpha (α)	<u>0.4</u>	pCi/L
Beta Emitters (β)	<u>5.4</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: 0.00%    E. coli: absent

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

N. D. = Not Detected

Cations :		
Calcium	(Ca)	<u>42</u> mg/L
Magnesium	(Mg)	<u>15</u> mg/L
Sodium	(Na)	<u>70</u> mg/L
Potassium	(K)	<u>5.9</u> mg/L

Anions :		
Bicarbonate	(HCO <sub>3</sub> )	<u>55</u> mg/L
Carbonate	(CO <sub>3</sub> )	<u>8.4</u> mg/L
Hydroxide	(OH)	<u>&lt;0.1</u> mg/L
Fluoride	(F)	<u>0.7</u> mg/L
Chloride	(Cl)	<u>24</u> mg/L
Bromide	(Br)	<u>0.02</u> mg/L
Nitrite	(NO <sub>2</sub> )	<u>&lt;0.07</u> mg/L
Nitrate	(NO <sub>3</sub> )	<u>4.93</u> mg/L
Phosphate	(PO <sub>4</sub> )	<u>&lt;0.10</u> mg/L
Sulfate	(SO <sub>4</sub> )	<u>230</u> mg/L

Trace Inorganics :		
Aluminum	(Al)	<u>0.076</u> mg/L
Copper	(Cu)	<u>0.002</u> mg/L
Iron	(Fe)	<u>0.076</u> mg/L
Lithium	(Li)	<u>0.047</u> mg/L
Manganese	(Mn)	<u>&lt;0.001</u> mg/L
Strontium	(Sr)	<u>0.410</u> mg/L
Zinc	(Zn)	<u>&lt;0.005</u> mg/L

Antimony	(Sb)	<u>&lt; 1.0</u> µg/L
Arsenic	(As)	<u>&lt;1.0</u> µg/L
Barium	(Ba)	<u>25.3</u> µg/L
Beryllium	(Be)	<u>&lt; 1.0</u> µg/L
Cadmium	(Cd)	<u>&lt; 1.0</u> µg/L
Chromium	(Cr)	<u>1.22</u> µg/L
Lead	(Pb)	<u>&lt; 1.0</u> µg/L
Mercury	(Hg)	<u>-</u> µg/L
Nickel	(Ni)	<u>1.42</u> µg/L
Selenium	(Se)	<u>&lt; 5.0</u> µg/L
Thallium	(Tl)	<u>&lt; 1.0</u> µg/L

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

**Chris Griesman**

Chemist II