

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

Florence Plant

Monthly Averages

Source: Finished Water

Date: October, 2024

| | | |
|------------------------------------|-------------|-------|
| Temperature | <u>17.6</u> | ° C |
| Turbidity (NTU) | <u>0.05</u> | Units |
| Color | <u>1</u> | Units |
| Dissolved Oxygen (O ₂) | <u>5.8</u> | mg/L |
| Langelier Index | <u>1.01</u> | |
| UV-ABS @ 254 nm | <u>5.0</u> | ABS/m |
| Total Organic Carbon | <u>2.7</u> | mg/L |
| Specific Conductance @ 25 °C | <u>645</u> | µmhos |
| Dissolved Solids (Calculated) | <u>495</u> | mg/L |
| Silica (SiO ₂) | <u>5.1</u> | mg/L |

pH 9.14 Units

| | | |
|---------------------------------|-----------|------|
| Alkalinity (CaCO ₃) | | |
| Phenolphthalein (P) | <u>9</u> | mg/L |
| Total (M) | <u>61</u> | mg/L |

| | | |
|-------------------------------------|------------|------|
| Total Hardness (CaCO ₃) | <u>166</u> | mg/L |
| Carbonate | <u>61</u> | mg/L |
| Non-carbonate | <u>105</u> | mg/L |

| | | |
|--------------|-----------------|------|
| Nitrogen (N) | | |
| Ammonia | <u><0.05</u> | mg/L |
| Nitrite | <u><0.02</u> | mg/L |
| Nitrate | <u>0.21</u> | mg/L |

| | | |
|-----------------------------|-------------|------|
| Chlorine (Cl ₂) | | |
| Free Residual | <u>0.00</u> | mg/L |
| Total Residual | <u>2.36</u> | mg/L |

Surfactants (MBAS) - mg/L

| | | |
|-------------------|------------|-------|
| Radioactivity : | | |
| Gross Alpha (α) | <u>0.1</u> | pCi/L |
| Beta Emitters (β) | <u>2.8</u> | pCi/L |
| Radium 226+228 | <u>-</u> | pCi/L |
| Uranium | <u>-</u> | mg/L |

| | | |
|----------------|------------|------|
| Cations : | | |
| Calcium (Ca) | <u>38</u> | mg/L |
| Magnesium (Mg) | <u>17</u> | mg/L |
| Sodium (Na) | <u>83</u> | mg/L |
| Potassium (K) | <u>6.8</u> | mg/L |

| | | |
|---------------------------------|-----------------|------|
| Anions : | | |
| Bicarbonate (HCO ₃) | <u>52</u> | mg/L |
| Carbonate (CO ₃) | <u>11</u> | mg/L |
| Hydroxide (OH) | <u>0.1</u> | mg/L |
| Fluoride (F) | <u>0.7</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>0.92</u> | mg/L |
| Phosphate (PO ₄) | <u><0.10</u> | mg/L |
| Sulfate (SO ₄) | <u>262</u> | mg/L |

| | | |
|--------------------|------------------|------|
| Trace Inorganics : | | |
| Aluminum (Al) | <u>0.362</u> | mg/L |
| Copper (Cu) | <u>0.002</u> | mg/L |
| Iron (Fe) | <u>0.075</u> | mg/L |
| Lithium (Li) | <u>0.058</u> | mg/L |
| Manganese (Mn) | <u>0.001</u> | mg/L |
| Strontium (Sr) | <u>0.408</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>24.4</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>1.28</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 |

Chris Griesman

Chemist II

N. D. = Not Detected