

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

Florence Plant

Monthly Averages

Source: Finished Water

Date: November, 2023

|                                    |             |       |
|------------------------------------|-------------|-------|
| Temperature                        | <u>9.9</u>  | ° C   |
| Turbidity (NTU)                    | <u>0.06</u> | Units |
| Color                              | <u>2</u>    | Units |
| Dissolved Oxygen (O <sub>2</sub> ) | <u>8.8</u>  | mg/L  |
| Langelier Index                    | <u>1.12</u> |       |
| UV-ABS @ 254 nm                    | <u>5.1</u>  | ABS/m |
| Total Organic Carbon               | <u>3.1</u>  | mg/L  |
| Specific Conductance @ 25 °C       | <u>631</u>  | µmhos |
| Dissolved Solids (Calculated)      | <u>496</u>  | mg/L  |
| Silica (SiO <sub>2</sub> )         | <u>7.7</u>  | mg/L  |

pH 9.22 Units

|                                 |           |      |
|---------------------------------|-----------|------|
| Alkalinity (CaCO <sub>3</sub> ) |           |      |
| Phenolphthalein (P)             | <u>13</u> | mg/L |
| Total (M)                       | <u>89</u> | mg/L |

|                                     |            |      |
|-------------------------------------|------------|------|
| Total Hardness (CaCO <sub>3</sub> ) | <u>183</u> | mg/L |
| Carbonate                           | <u>89</u>  | mg/L |
| Non-carbonate                       | <u>94</u>  | mg/L |

|              |                 |      |
|--------------|-----------------|------|
| Nitrogen (N) |                 |      |
| Ammonia      | <u>&lt;0.05</u> | mg/L |
| Nitrite      | <u>&lt;0.02</u> | mg/L |
| Nitrate      | <u>0.35</u>     | mg/L |

|                             |             |      |
|-----------------------------|-------------|------|
| Chlorine (Cl <sub>2</sub> ) |             |      |
| Free Residual               | <u>0.00</u> | mg/L |
| Total Residual              | <u>2.27</u> | mg/L |

Surfactants (MBAS) - mg/L

|                   |            |       |
|-------------------|------------|-------|
| Radioactivity :   |            |       |
| Gross Alpha (α)   | <u>0.4</u> | pCi/L |
| Beta Emitters (β) | <u>4.1</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>22</u>  | mg/L |
| Sodium (Na)    | <u>76</u>  | mg/L |
| Potassium (K)  | <u>5.7</u> | mg/L |

|                                 |                 |      |
|---------------------------------|-----------------|------|
| Anions :                        |                 |      |
| Bicarbonate (HCO <sub>3</sub> ) | <u>77</u>       | mg/L |
| Carbonate (CO <sub>3</sub> )    | <u>16</u>       | mg/L |
| Hydroxide (OH)                  | <u>&lt;0.1</u>  | mg/L |
| Fluoride (F)                    | <u>0.8</u>      | mg/L |
| Chloride (Cl)                   | <u>17</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>1.55</u>     | mg/L |
| Phosphate (PO <sub>4</sub> )    | <u>&lt;0.10</u> | mg/L |
| Sulfate (SO <sub>4</sub> )      | <u>235</u>      | mg/L |

|                    |                  |      |
|--------------------|------------------|------|
| Trace Inorganics : |                  |      |
| Aluminum (Al)      | <u>0.082</u>     | mg/L |
| Copper (Cu)        | <u>0.002</u>     | mg/L |
| Iron (Fe)          | <u>0.069</u>     | mg/L |
| Lithium (Li)       | <u>0.052</u>     | mg/L |
| Manganese (Mn)     | <u>&lt;0.001</u> | mg/L |
| Strontium (Sr)     | <u>0.390</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>24.0</u>     | µg/L |
| Beryllium (Be) | <u>&lt; 1.0</u> | µg/L |
| Cadmium (Cd)   | <u>&lt; 1.0</u> | µg/L |
| Chromium (Cr)  | <u>&lt; 1.0</u> | µg/L |
| Lead (Pb)      | <u>&lt; 1.0</u> | µg/L |
| Mercury (Hg)   | <u>-</u>        | µg/L |
| Nickel (Ni)    | <u>1.54</u>     | µg/L |
| Selenium (Se)  | <u>&lt; 5.0</u> | µg/L |
| Thallium (Tl)  | <u>&lt; 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