

**NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie**

**Water Analysis**

**Oct-2022**

| <b>Mineral Analysis</b> | <b>Raw</b>    | <b>Treated</b> | <b>Standards</b>   |                      |                     |                       |
|-------------------------|---------------|----------------|--------------------|----------------------|---------------------|-----------------------|
|                         |               |                | <b>EPA Primary</b> | <b>EPA Secondary</b> | <b>TCEQ Primary</b> | <b>TCEQ Secondary</b> |
|                         | <b>(mg/L)</b> | <b>(mg/L)</b>  | <b>(mg/L)</b>      | <b>(mg/L)</b>        | <b>(mg/L)</b>       | <b>(mg/L)</b>         |
| Residue on Evaporation  | 392           | 413            |                    | 500                  |                     | 1000                  |
| Silica (SiO2)           | 6.29          | 6.16           |                    |                      |                     |                       |
| Iron (Fe)               | <0.200        | <0.200         |                    | 0.3                  |                     | 0.3                   |
| Calcium (Ca)            | 35.2          | 37.1           |                    |                      |                     |                       |
| Magnesium (Mg)          | 7.03          | 12.4           |                    |                      |                     |                       |
| Sodium (Na)             | 46.5          | 75.8           |                    |                      |                     |                       |
| Potassium (K)           | 6.00          | 8.41           |                    |                      |                     |                       |
| Sulfate (SO4)           | 81.5          | 114            |                    | 250                  |                     |                       |
| Nitrite (NO2)           | <0.0200       | <0.0200        | 1                  |                      | 1                   |                       |
| Nitrate (NO3)           | 0.0750        | 0.152          | 10                 |                      | 10                  |                       |
| Chloride (Cl)           | 88.1          | 76.7           |                    | 250                  |                     | 300                   |
| Fluoride (F)            | 0.350         | 0.564 *        | 4.0                | 2.0                  | 4.0                 | 2.0                   |
| Phosphates (PO4)        | 0.113         | <0.0200        |                    |                      |                     |                       |

|                  | <b>(mg/L as CaCO3)</b> | <b>(mg/L as CaCO3)</b> | <b>(mg/L as CaCO3)</b> | <b>(mg/L as CaCO3)</b> | <b>(mg/L as CaCO3)</b> | <b>(mg/L as CaCO3)</b> |
|------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Total Alkalinity | 98.3 *                 | 80.2 *                 |                        |                        |                        |                        |
| Total Hardness   | 130                    | 122                    |                        |                        |                        |                        |
| Langelier Index  |                        | -0.1040                |                        |                        |                        |                        |

**Trace Element Analysis**

|                | <b>(mg/L)</b> | <b>(mg/L)</b> | <b>(mg/L)</b> | <b>(mg/L)</b> | <b>(mg/L)</b> | <b>(mg/L)</b> |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Arsenic (As)   | 0.00469       | 0.00084       | 0.01          |               | 0.01          |               |
| Barium (Ba)    | 0.0686        | 0.0529        | 2             |               | 2             |               |
| Cadmium (Cd)   | <0.00100      | <0.00100      | 0.005         |               | 0.005         |               |
| Chromium (Cr)  | <0.00250      | <0.00250      | 0.1           |               | 0.1           |               |
| Copper (Cu)    | 0.00153       | 0.00325       | 1.3           | 1             | 1.3           | 1.0           |
| Iron (Fe)      | <0.200        | <0.200        |               | 0.3           |               | 0.3           |
| Lead (Pb)      | <0.000500     | <0.000500     | 0.015         |               | 0.015         |               |
| Manganese (Mn) | 0.0639        | <0.0250       |               | 0.05          |               | 0.05          |
| Mercury (Hg)   | <0.000100     | <0.000100     | 0.002         |               | 0.002         |               |
| Nickel (Ni)    | 0.00366       | 0.00569       |               |               |               |               |
| Selenium (Se)  | <0.00100      | <0.00100      | 0.05          |               | 0.05          |               |
| Silver (Ag)    | <0.000500     | <0.000500     |               | 0.10          |               | 0.1           |
| Zinc (Zn)      | 0.00358       | 0.00710       |               | 5             |               | 5             |

**Other Analysis**

|                                     |        |          |     |           |     |      |
|-------------------------------------|--------|----------|-----|-----------|-----|------|
| Chlorine Residual (mg/L)            | --     | 3.97 *   | 4.0 |           | 4.0 |      |
| Total coliform ( Present / Absent ) | --     | A *      | A   |           | A   |      |
| pH (Standard Units) @ 25°C          | 8.10 * | 8.06 *   |     | 6.5 - 8.5 |     | >7.0 |
| Specific Conductance (Umhos)        | 619 *  | 616 *    |     |           |     |      |
| Turbidity (NTU)                     | 13.9 * | 0.0812 * | 0.3 |           | 0.3 |      |
| Threshold Odor Number               | <1.00  | 2.00     |     |           |     | 3    |

**Note 1: National Primary Drinking Water Regulations or Primary Standards are legally enforceable standards. National Secondary Drinking Water Regulations or Secondary Standards are non-enforceable guidelines regulating contaminants that may cause cosmetic or aesthetic effects In Drinking Water.**

**Note 2: TCEQ Primary Standards are the maximum contaminant level allowed for each constituent. TCEQ Primary Standards are legally enforceable standards.**

**Note 3: \* Identifies Monthly Average Process analyses.**