

**NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie**
**Water Analysis**
**Dec-2021**

| <b>Mineral Analysis</b>       | <b>Raw</b>    | <b>Treated</b> | <b>Standards</b>       |                          |                         |                           |
|-------------------------------|---------------|----------------|------------------------|--------------------------|-------------------------|---------------------------|
|                               |               |                | <b>EPA<br/>Primary</b> | <b>EPA<br/>Secondary</b> | <b>TCEQ<br/>Primary</b> | <b>TCEQ<br/>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        | 219           | 290            |                        | 500                      |                         | 1000                      |
| Silica (SiO <sub>2</sub> )    | 6.35          | 6.02           |                        |                          |                         |                           |
| Iron (Fe)                     | 0.545         | 0.415          |                        | 0.3                      |                         | 0.3                       |
| Calcium (Ca)                  | 39.6          | 47.3           |                        |                          |                         |                           |
| Magnesium (Mg)                | 3.78          | 3.81           |                        |                          |                         |                           |
| Sodium (Na)                   | 23.9          | 39.9           |                        |                          |                         |                           |
| Potassium (K)                 | 4.95          | 4.88           |                        |                          |                         |                           |
| Sulfate (SO <sub>4</sub> )    | 32.9          | 91.1           |                        | 250                      |                         |                           |
| Nitrite (NO <sub>2</sub> )    | 0.0200        | <0.0200        | 1                      |                          | 1                       |                           |
| Nitrate (NO <sub>3</sub> )    | 0.379         | 0.530          | 10                     |                          | 10                      |                           |
| Chloride (Cl)                 | 23.7          | 31.9           |                        | 250                      |                         | 300                       |
| Fluoride (F)                  | 0.278         | 0.528 *        | 4.0                    | 2.0                      | 4.0                     | 2.0                       |
| Phosphates (PO <sub>4</sub> ) | 0.0950        | 0.395          |                        |                          |                         |                           |

|                  | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> |
|------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Total Alkalinity | 107 *                                 | 87.0 *                                |                                       |                                       |                                       |                                       |
| Total Hardness   | 120                                   | 128                                   |                                       |                                       |                                       |                                       |
| Langelier Index  |                                       | 0.1180                                |                                       |                                       |                                       |                                       |

**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)   | 0.00218       | 0.00078       | 0.01          |               | 0.01          |               |
| Barium (Ba)    | 0.0518        | 0.0460        | 2             |               | 2             |               |
| Cadmium (Cd)   | <0.00100      | <0.00100      | 0.005         |               | 0.005         |               |
| Chromium (Cr)  | <0.00250      | <0.00250      | 0.1           |               | 0.1           |               |
| Copper (Cu)    | 0.0212        | 0.00106       | 1.3           | 1             | 1.3           | 1.0           |
| Iron (Fe)      | 0.545         | 0.415         |               | 0.3           |               | 0.3           |
| Lead (Pb)      | 0.000590      | <0.000500     | 0.015         |               | 0.015         |               |
| Manganese (Mn) | 0.0728        | 0.0410        |               | 0.05          |               | 0.05          |
| Mercury (Hg)   | <0.000100     | <0.000100     | 0.002         |               | 0.002         |               |
| Nickel (Ni)    | 0.00444       | 0.00751       |               |               |               |               |
| Selenium (Se)  | <0.00100      | <0.00100      | 0.05          |               | 0.05          |               |
| Silver (Ag)    | <0.000500     | <0.000500     |               | 0.10          |               | 0.1           |
| Zinc (Zn)      | 0.00762       | <0.00250      |               | 5             |               | 5             |

**Other Analysis**

|                                     |        |          |     |           |     |      |
|-------------------------------------|--------|----------|-----|-----------|-----|------|
| Chlorine Residual (mg/L)            | --     | 3.71 *   | 4.0 |           | 4.0 |      |
| Total coliform ( Present / Absent ) | --     | A *      | A   |           | A   |      |
| pH (Standard Units) @ 25°C          | 8.16 * | 8.27 *   |     | 6.5 - 8.5 |     | >7.0 |
| Specific Conductance (Umhos)        | 346 *  | 457 *    |     |           |     |      |
| Turbidity (NTU)                     | 17.0 * | 0.0652 * | 0.3 |           | 0.3 |      |
| Threshold Odor Number               | 4      | 2        |     |           |     | 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.**