

**NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie****Water Analysis****Oct-2019**

| <b>Mineral Analysis</b>       | <b>Standards</b> |                |                |                  |                |                  |
|-------------------------------|------------------|----------------|----------------|------------------|----------------|------------------|
|                               | <b>Raw</b>       | <b>Treated</b> | <b>EPA</b>     | <b>EPA</b>       | <b>TCEQ</b>    | <b>TCEQ</b>      |
|                               | <b>(mg/L)</b>    | <b>(mg/L)</b>  | <b>Primary</b> | <b>Secondary</b> | <b>Primary</b> | <b>Secondary</b> |
|                               |                  |                | <b>(mg/L)</b>  | <b>(mg/L)</b>    | <b>(mg/L)</b>  | <b>(mg/L)</b>    |
| Residue on Evaporation        | 452              | 370            |                | 500              |                | 1000             |
| Silica (SiO <sub>2</sub> )    | 6.72             | 6.30           |                |                  |                |                  |
| Iron (Fe)                     | 0.356            | 0.204          |                | 0.3              |                | 0.3              |
| Calcium (Ca)                  | 55.8             | 55.3           |                |                  |                |                  |
| Magnesium (Mg)                | 13.0             | 6.17           |                |                  |                |                  |
| Sodium (Na)                   | 56.6             | 49.6           |                |                  |                |                  |
| Potassium (K)                 | 4.20             | 4.08           |                |                  |                |                  |
| Sulfate (SO <sub>4</sub> )    | 98.2             | 110            |                | 250              |                |                  |
| Nitrite (NO <sub>2</sub> )    | <0.0100          | <0.0100        | 1              |                  | 1              |                  |
| Nitrate (NO <sub>3</sub> )    | 0.0920           | 0.153          | 10             |                  | 10             |                  |
| Chloride (Cl)                 | 78.8             | 45.1           |                | 250              |                | 300              |
| Fluoride (F)                  | 0.243            | 0.229 *        | 4.0            | 2.0              | 4.0            | 2.0              |
| Phosphates (PO <sub>4</sub> ) | 0.0840           | <0.0100        |                |                  |                |                  |

|                  | <b>(mg/L as CaCO<sub>3</sub>)</b> | <b>(mg/L as CaCO<sub>3</sub>)</b> | <b>(mg/L as CaCO<sub>3</sub>)</b> | <b>(mg/L as CaCO<sub>3</sub>)</b> | <b>(mg/L as CaCO<sub>3</sub>)</b> | <b>(mg/L as CaCO<sub>3</sub>)</b> |
|------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Total Alkalinity | 97.5 *                            | 75.6 *                            |                                   |                                   |                                   |                                   |
| Total Hardness   | 179                               | 132                               |                                   |                                   |                                   |                                   |
| Langelier Index  |                                   | 0.8240                            |                                   |                                   |                                   |                                   |

**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)   | 0.00420       | 0.00059       | 0.01          |               | 0.01          |               |
| Barium (Ba)    | 0.0783        | 0.0431        | 2             |               | 2             |               |
| Cadmium (Cd)   | <0.000500     | <0.000500     | 0.005         |               | 0.005         |               |
| Chromium (Cr)  | <0.00125      | <0.00125      | 0.1           |               | 0.1           |               |
| Copper (Cu)    | 0.0238        | 0.00142       | 1.3           | 1             | 1.3           | 1.0           |
| Iron (Fe)      | 0.356         | 0.204         |               | 0.3           |               | 0.3           |
| Lead (Pb)      | 0.000338      | <0.000250     | 0.015         |               | 0.015         |               |
| Manganese (Mn) | 0.0416        | 0.0109        |               | 0.05          |               | 0.05          |
| Mercury (Hg)   | <0.0000500    | <0.0000500    | 0.002         |               | 0.002         |               |
| Nickel (Ni)    | 0.00333       | 0.00665       |               |               |               |               |
| Selenium (Se)  | 0.00101       | <0.000500     | 0.05          |               | 0.05          |               |
| Silver (Ag)    | <0.000250     | <0.000250     |               | 0.10          |               | 0.1           |
| Zinc (Zn)      | 0.00639       | 0.00207       |               | 5             |               | 5             |

**Other Analysis**

|                                     |        |          |     |           |     |      |
|-------------------------------------|--------|----------|-----|-----------|-----|------|
| Chlorine Residual (mg/L)            | --     | 3.35 *   | 4.0 |           | 4.0 |      |
| Total coliform ( Present / Absent ) | --     | A *      | A   |           | A   |      |
| pH (Standard Units) @ 25°C          | 8.31 * | 8.26 *   |     | 6.5 - 8.5 |     | >7.0 |
| Specific Conductance (Umhos)        | 664 *  | 558 *    |     |           |     |      |
| Turbidity (NTU)                     | 16.5 * | 0.0733 * | 0.3 |           | 0.3 |      |
| Threshold Odor Number               | 33.0   | 3.0      |     |           |     | 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.**