

**North Texas Municipal Water District  
Water Analysis  
Mar-2010**

| <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           | 220           | 294            |                        | 500                      |                         | 1000                      |
| Silica (SiO <sub>2</sub> )       | 7.93          | 7.19           |                        |                          |                         |                           |
| Iron (Fe)                        | <0.200        | <0.200         |                        | 0.3                      |                         | 0.3                       |
| Calcium (Ca)                     | 60.7          | 66.4           |                        |                          |                         |                           |
| Magnesium (Mg)                   | 3.86          | 3.84           |                        |                          |                         |                           |
| Sodium (Na)                      | 18.4          | 27.6           |                        |                          |                         |                           |
| Potassium (K)                    | 3.50          | 3.54           |                        |                          |                         |                           |
| Bicarbonates (HCO <sub>3</sub> ) | 136           | 116            |                        |                          |                         |                           |
| Carbonates (CO <sub>3</sub> )    | 0             | 0              |                        |                          |                         |                           |
| Hydroxides (OH)                  | 0             | 0              |                        |                          |                         |                           |
| Sulfate (SO <sub>4</sub> )       | 36.3          | 84.1           |                        | 250                      |                         |                           |
| Nitrite (NO <sub>2</sub> )       | <0.0200       | <0.0200        | 1                      |                          | 1                       |                           |
| Nitrate (NO <sub>3</sub> )       | 0.575         | 0.436          | 10                     |                          | 10                      |                           |
| Chloride (Cl)                    | 19.2          | 23.8           |                        | 250                      |                         | 300                       |
| Fluoride (F)                     | 0.213         | 0.509          | 4.0                    | 2.0                      |                         | 2.0                       |
| Phosphates (PO <sub>4</sub> )    | 0.0380        | <0.0200        |                        |                          |                         |                           |

|                            | <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           | 136                                   | 116                                   |                                       |                                       |                                       |                                       |
| Phenolphthalein Alkalinity | 0                                     | 0                                     |                                       |                                       |                                       |                                       |
| Noncarbonate Hardness      | 25.5                                  | 60.5                                  |                                       |                                       |                                       |                                       |
| Total Hardness             | 162                                   | 177                                   |                                       |                                       |                                       |                                       |
| Langelier Index            | -                                     | [- 0.134 ]                            |                                       |                                       |                                       |                                       |

**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)   | <0.00500      | <0.00500      | 0.01          |               | 0.01          |               |
| Barium (Ba)    | 0.0496        | 0.0386        | 2             |               | 2             |               |
| Cadmium (Cd)   | <0.00100      | <0.00100      | 0.005         |               | 0.005         |               |
| Chromium (Cr)  | <0.00500      | <0.00500      | 0.1           |               | 0.1           |               |
| Copper (Cu)    | 0.00275       | 0.0872        | 1.3           |               | 1.3           | 1.0           |
| Iron (Fe)      | <0.200        | <0.200        |               | 0.3           |               |               |
| Lead (Pb)      | <0.00100      | <0.00100      | 0.15          |               | 0.15          |               |
| Manganese (Mn) | 0.0203        | <0.00100      |               | 0.05          |               | 0.05          |
| Mercury (Hg)   | <0.000100     | <0.000100     | 0.002         |               | 0.002         |               |
| Nickel (Ni)    | 0.00393       | 0.00378       |               |               |               |               |
| Selenium (Se)  | <0.00100      | <0.00100      | 0.05          |               | 0.05          |               |
| Silver (Ag)    | <0.00100      | <0.00100      |               | 0.10          |               | 0.1           |
| Zinc (Zn)      | <0.0100       | <0.0100       |               | 5             |               | 5             |

**Other Analysis**

|                                     |       |        |     |           |     |      |
|-------------------------------------|-------|--------|-----|-----------|-----|------|
| Chlorine Residual (mg/L)            | -     | 3.29*  | 4.0 |           | 4.0 |      |
| Total coliform ( Present / Absent ) | P     | A      | A   |           | A   |      |
| pH (Standard Units) @ 25°C          | 8.18* | 7.69*  |     | 6.5 - 8.5 |     | >7.0 |
| Specific Conductance (Umhos)        | 409   | 495    |     |           |     |      |
| Turbidity (NTU)                     | 12.5  | 0.140* | 0.3 |           | 0.3 |      |
| Threshold Odor Number               | 4E    | 4CL    |     |           |     | 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.**