**North Texas Municipal Water District**
**Water Analysis**
**Jun-05**

| **Mineral Analysis** | **Raw (mg/L)** | **Treated (mg/L)** | **Standards (mg/L)** |
|---|---|---|---|
| Residue on Evaporation | 264 | 284 | |
| Silica (SiO2) | 8.24 | 7.23 | |
| Iron (Fe) | 0.288 | <0.104 | 0.3 |
| Calcium (Ca) | 48.4 | 51.2 | |
| Magnesium (Mg) | 5.31 | 5.15 | |
| Sodium (Na) | 34.7 | 38.9 | |
| Potassium (K) | 4.28 | 4.15 | |
| Bicarbonates (HCO3) | 141.75 | 138.09 | |
| Carbonates (CO3) | 0 | 0 | |
| Hydroxides (OH) | 0 | 0 | |
| Sulfate (SO4) | 55 | 71.2 | 300 |
| Nitrite (NO2) | <0.02 | <0.02 | |
| Nitrate (NO3) | <0.02 | 0.0712 | |
| Chloride (Cl) | 61 | 58.6 | 300 |
| Fluoride (F) | 0.33 | 0.74 | 2 |
| Phosphates (PO4) | 0.0523 | <0.01 | |

| | **(mg/L as CaCO3)** | **(mg/L as CaCO3)** | **(mg/L as CaCO3)** |
|---|---|---|---|
| Total Alkalinity | 116 | 113 | |
| Phenolphthalein Alkalinity | 0 | 0 | |
| Noncarbonate Hardness | 35 | 57 | |
| Total Hardness | 151 | 170 | |
| Langelier Index | | (+0.1) | |

**Trace Element Analysis**

| | (mg/L) | (mg/L) | (mg/L) |
|---|---|---|---|
| Arsenic (As) | 0.00438 | <0.00194 | 0.05 |
| Barium (Ba) | 0.0693 | 0.0534 | 1 |
| Cadmium (Cd) | <0.00013 | <0.00013 | 0.01 |
| Chromium (Cr) | <0.00258 | <0.00258 | 0.05 |
| Copper (Cu) | 0.00959 | 0.0534 | 1 |
| Iron (Fe) | 0.288 | <0.104 | 0.3 |
| Lead (Pb) | 0.00112 | <0.00021 | 0.05 |
| Manganese (Mn) | 0.0475 | 0.00153 | 0.05 |
| Mercury (Hg) | <0.0001 | <0.0001 | 0.002 |
| Nickel (Ni) | 0.00453 | 0.00425 | 0.1 |
| Selenium (Se) | <0.00102 | <0.00102 | |
| Silver (Ag) | <0.00025 | <0.00025 | 0.05 |
| Zinc (Zn) | 0.023 | <0.00643 | 5 |

**Other Analyses**

| | | | |
|---|---|---|---|
| Chlorine Residual (mg/L) | | 2.86 | |
| Total Coliform (Present/Absent) | P | A | |

| | | | |
|---|---|---|---|
| pH (Standard Units) | 7.7 | 7.8 | 6.5-8.5 |
| Specific  Conductance (Umhos) | 484 | 553 | |
| Turbidity (NTU) | 5.8 | 0.2 | 0.3 |
| Threshold Odor Number | 12E | 1C | 3 |