

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

Mineral Analysis

| | <u>Raw</u> (mg/L) | <u>Treated</u> (mg/L) | <u>Standards</u> (mg/L) |
|----------------------------------|----------------------|--------------------------|----------------------------|
| Residue on Evaporation | 272 | 304 | |
| Silica (SiO ₂) | 10.5 | 9.95 | |
| Iron (Fe) | 0.355 | <0.104 | 0.3 |
| Calcium (Ca) | 44.1 | 52 | |
| Magnesium (Mg) | 6.22 | 6.39 | |
| Sodium (Na) | 43 | 49.9 | |
| Potassium (K) | 4.93 | 5.02 | |
| Bicarbonates (HCO ₃) | 112.42 | 113.65 | |
| Carbonates (CO ₃) | 0 | 0 | |
| Hydroxides (OH) | 0 | 0 | |
| Sulfate (SO ₄) | 50.2 | 73.2 | 300 |
| Nitrite (NO ₂) | <0.02 | <0.02 | |
| Nitrate (NO ₃) | 0.076 | 0.036 | |
| Chloride (Cl) | 59.7 | 64.5 | 300 |
| Fluoride (F) | 0.34 | 0.75 | 2 |
| Phosphates (PO ₄) | 0.041 | <0.01 | |

| | (mg/L as CaCO ₃) | (mg/L as CaCO ₃) | (mg/L as CaCO ₃) |
|----------------------------|------------------------------|------------------------------|------------------------------|
| Total Alkalinity | 92 | 93 | |
| Phenolphthalein Alkalinity | 0 | 0 | |
| Noncarbonate Hardness | 31 | 51 | |
| Total Hardness | 123 | 144 | |
| Langelier Index | | 0 | |

Trace Element Analysis

| | (mg/L) | (mg/L) | (mg/L) |
|----------------|----------|----------|--------|
| Arsenic (As) | 0.00783 | <0.00194 | 0.05 |
| Barium (Ba) | 0.0505 | 0.0442 | 1 |
| Cadmium (Cd) | <0.00013 | <0.00013 | 0.01 |
| Chromium (Cr) | <0.00258 | <0.00258 | 0.05 |
| Copper (Cu) | 0.00926 | 0.0444 | 1 |
| Iron (Fe) | 0.355 | <0.104 | 0.3 |
| Lead (Pb) | 0.00113 | <0.00021 | 0.05 |
| Manganese (Mn) | 0.0472 | 0.000759 | 0.05 |
| Mercury (Hg) | <0.0001 | <0.0001 | 0.002 |
| Nickel (Ni) | 0.00462 | 0.00361 | 0.1 |
| Selenium (Se) | 0.00199 | 0.00112 | |
| Silver (Ag) | <0.00025 | <0.00025 | 0.05 |
| Zinc (Zn) | 0.0276 | <0.00643 | 5 |

Other Analyses

| | | | |
|---------------------------------|---|------|--|
| Chlorine Residual (mg/L) | | 2.96 | |
| Total Coliform (Present/Absent) | P | A | |

| | | | |
|------------------------------|-----|------|---------|
| pH (Standard Units) | 7.7 | 8 | 6.5-8.5 |
| Specific Conductance (Umhos) | 481 | 553 | |
| Turbidity (NTU) | 9.8 | 0.14 | 0.3 |
| Threshold Odor Number | 24E | 1C | 3 |