

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

**Mineral Analysis**

	<b><u>Raw</u></b> <b>(mg/L)</b>	<b><u>Treated</u></b> <b>(mg/L)</b>	<b><u>Standards</u></b> <b>(mg/L)</b>
Residue on Evaporation	NR	284	
Silica (SiO <sub>2</sub> )	9.64	8.07	
Iron (Fe)	NR	<0.104	0.3
Calcium (Ca)	62.7	61.2	
Magnesium (Mg)	5.94	5.58	
Sodium (Na)	39.6	42.3	
Potassium (K)	5.18	4.96	
Bicarbonates (HCO <sub>3</sub> )	142.97	129.53	
Carbonates (CO <sub>3</sub> )	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO <sub>4</sub> )	NR	66.6	300
Nitrite (NO <sub>2</sub> )	<0.02	<0.02	
Nitrate (NO <sub>3</sub> )	0.622	0.554	
Chloride (Cl)	49.5	56.4	300
Fluoride (F)	0.32	0.74	2
Phosphates (PO <sub>4</sub> )	0.169	<0.01	

	<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	117	106	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	38	60	
Total Hardness	155	166	
Langelier Index		(+0.1)	

**Trace Element Analysis**

	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>
Arsenic (As)	0.00458	<0.00194	0.05
Barium (Ba)	0.0657	0.0398	1
Cadmium (Cd)	<0.00013	<0.00013	0.01
Chromium (Cr)	<0.00258	<0.00258	0.05
Copper (Cu)	0.00871	0.0292	1
Iron (Fe)	NR	<0.104	0.3
Lead (Pb)	0.00253	<0.00021	0.05
Manganese (Mn)	NR	0.00172	0.05
Mercury (Hg)	<0.0001	<0.0001	0.002
Nickel (Ni)	0.00669	0.00459	0.1
Selenium (Se)	0.00118	<0.00102	
Silver (Ag)	<0.00025	<0.00025	0.05
Zinc (Zn)	0.0307	<0.00643	5

**Other Analyses**

Chlorine Residual (mg/L)		3.11	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	8	7.9	6.5-8.5
Specific Conductance (Umhos)	495	540	
Turbidity (NTU)	30	0.22	0.3
Threshold Odor Number	35E	1C	3