

**North Texas Municipal Water District
Water Analysis
Aug-06**

Mineral Analysis	Raw (mg/L)	Treated (mg/L)	Standards (mg/L)
Residue on Evaporation	530.0	604.0	
Silica (SiO ₂)	8.98	7.58	
Iron (Fe)	0.36	<0.0519	0.3
Calcium (Ca)	45.4	56.1	
Magnesium (Mg)	11.5	9.91	
Sodium (Na)	110	122	
Potassium (K)	7.09	6.33	
Bicarbonates (HCO ₃)	103.87	90.43	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	103.0	167.0	300
Nitrite (NO ₂)	<0.02	<0.02	
Nitrate (NO ₃)	0.27	<0.02	
Chloride (Cl)	163.0	177.0	300
Fluoride (F)	0.38	0.72	2
Phosphates (PO ₄)	0.101	0.0349	

	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)
Total Alkalinity	85	74	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	97	138	
Total Hardness	182	212	
Langelier Index		(+0.3)	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00476	<0.00326	0.05
Barium (Ba)	0.0723	0.0595	1
Cadmium (Cd)	<0.000229	<0.000229	0.01
Chromium (Cr)	<0.00279	<0.00279	0.05
Copper (Cu)	0.00925	0.0217	1
Iron (Fe)	0.36	<0.0519	0.3
Lead (Pb)	0.000331	0.0000464	0.05
Manganese (Mn)	0.0533	0.00238	0.05
Mercury (Hg)	<0.0003	<0.0003	0.002
Nickel (Ni)	0.00378	0.00338	0.1
Selenium (Se)	<.00159	<0.00159	
Silver (Ag)	<0.000013	<0.000013	0.05
Zinc (Zn)	0.00442	0.00649	5

Other Analyses

Chlorine Residual (mg/L)		2.73	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	7.5	7.8	6.5-8.5
Specific Conductance (Umhos)	916	1017	
Turbidity (NTU)	8.3	0.12	0.3
Threshold Odor Number	35E	1C	3