

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

Mineral Analysis

	Raw (mg/L)	Treated (mg/L)	Standards (mg/L)
Residue on Evaporation	406	450	
Silica (SiO ₂)	9.17	6.12	
Iron (Fe)	0.219	<0.104	0.3
Calcium (Ca)	54.7	67.1	
Magnesium (Mg)	8.44	9.32	
Sodium (Na)	68.4	78.5	
Potassium (K)	5.32	5.58	
Bicarbonates (HCO ₃)	128.31	120.98	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	110	105	300
Nitrite (NO ₂)	<0.02	<0.02	
Nitrate (NO ₃)	0.389	0.305	
Chloride (Cl)	12	110	300
Fluoride (F)	0.34	0.56	2
Phosphates (PO ₄)	0.0612	0.0218	

(mg/L as CaCO₃) (mg/L as CaCO₃) (mg/L as CaCO₃)

Total Alkalinity	105	99	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	63	86	
Total Hardness	168	185	
Langelier Index		(+0.1)	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	<0.00194	<0.00194	0.05
Barium (Ba)	0.0641	0.0505	1
Cadmium (Cd)	<0.00013	<0.00013	0.01
Chromium (Cr)	<0.00258	<0.00258	0.05
Copper (Cu)	0.0048	0.031	1
Iron (Fe)	0.219	<0.104	0.3
Lead (Pb)	0.000278	0.00021	0.05
Manganese (Mn)	0.0417	0.000724	0.05
Mercury (Hg)	<0.0001	<0.0001	0.002
Nickel (Ni)	0.0032	0.00289	0.1
Selenium (Se)	<0.00102	<0.00102	
Silver (Ag)	<0.00025	<0.00025	0.05
Zinc (Zn)	<0.00643	<0.00643	5

Other Analyses

Chlorine Residual (mg/L)		2.83	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	8.2	8	6.5-8.5
Specific Conductance (Umhos)	688	744	
Turbidity (NTU)	12	0.13	0.3
Threshold Odor Number	12E	2C	3