

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

Mineral Analysis

	Raw (mg/L)	Treated (mg/L)	Standards (mg/L)
Residue on Evaporation	339	393	
Silica (SiO ₂)	6.68	4.9	
Iron (Fe)	0.125	<0.104	0.3
Calcium (Ca)	52.1	59.1	
Magnesium (Mg)	7.63	7.67	
Sodium (Na)	56.7	57.9	
Potassium (K)	5.83	5.62	
Bicarbonates (HCO ₃)	116.09	109.98	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	69.8	92.2	300
Nitrite (NO ₂)	<0.02	<0.02	
Nitrate (NO ₃)	0.202	0.155	
Chloride (Cl)	86.6	90.2	300
Fluoride (F)	0.37	0.54	2
Phosphates (PO ₄)	0.0205	<0.01	

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

Total Alkalinity	95	90	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	58	82	
Total Hardness	153	172	
Langelier Index		(+0.3)	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00198	<0.00194	0.05
Barium (Ba)	0.0605	0.0467	1
Cadmium (Cd)	<0.00013	<0.00013	0.01
Chromium (Cr)	<0.00258	<0.00258	0.05
Copper (Cu)	0.00374	0.0222	1
Iron (Fe)	0.125	<0.104	0.3
Lead (Pb)	0.00025	0.000225	0.05
Manganese (Mn)	0.0267	0.000794	0.05
Mercury (Hg)	<0.0001	<0.0001	0.002
Nickel (Ni)	0.00378	0.00395	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)		2.9	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	8.2	8.1	6.5-8.5
Specific Conductance (Umhos)	598	658	
Turbidity (NTU)	9.5	0.13	0.3
Threshold Odor Number	12E	1C	3