

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

Mineral Analysis

	Raw (mg/L)	Treated (mg/L)	Standards (mg/L)
Residue on Evaporation	272	276	
Silica (SiO ₂)	10.06	8.79	
Iron (Fe)	0.199	<0.104	0.3
Calcium (Ca)	38.7	47.1	
Magnesium (Mg)	6.44	6.68	
Sodium (Na)	32.3	37	
Potassium (K)	5.08	5.35	
Bicarbonates (HCO ₃)	125.87	125.87	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	49.8	69	300
Nitrite (NO ₂)	<0.02	<0.02	
Nitrate (NO ₃)	0.052	<0.02	
Chloride (Cl)	57.2	62	300
Fluoride (F)	0.34	0.77	2
Phosphates (PO ₄)	0.036	<0.01	

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

Total Alkalinity	103	103	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	33	50	
Total Hardness	136	153	
Langelier Index		(+0.1)	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00647	<0.00194	0.05
Barium (Ba)	0.0521	0.0456	1
Cadmium (Cd)	<0.00013	<0.00013	0.01
Chromium (Cr)	<0.00258	<0.00258	0.05
Copper (Cu)	0.00714	0.0529	1
Iron (Fe)	0.199	<0.104	0.3
Lead (Pb)	0.00175	0.0003	0.05
Manganese (Mn)	0.0247	0.001	0.05
Mercury (Hg)	<0.0001	<0.0001	0.002
Nickel (Ni)	0.00368	0.00359	0.1
Selenium (Se)	0.00107	<0.00102	
Silver (Ag)	<0.00025	<0.00025	0.05
Zinc (Zn)	0.0179	<0.00643	5

Other Analyses

Chlorine Residual (mg/L)		2.91	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	7.7	7.9	6.5-8.5
Specific Conductance (Umhos)	476	550	
Turbidity (NTU)	5.1	0.15	0.3
Threshold Odor Number	17E	2C	3