

**North Texas Municipal Water District
Water Analysis
May-2008**

Mineral Analysis	Raw	Treated	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	243	275		500		1000
Silica (SiO ₂)	4.53	3.77				
Iron (Fe)	0.392	<0.200		0.3		0.3
Calcium (Ca)	57.7	63.5				
Magnesium (Mg)	4.34	4.17				
Sodium (Na)	20.7	25.3				
Potassium (K)	4.33	4.15				
Bicarbonates (HCO ₃)	155	141				
Carbonates (CO ₃)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO ₄)	29.1	50.8		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.459	0.561	10		10	
Chloride (Cl)	20.1	24.1		250		300
Fluoride (F)	0.246	0.418	4.0	2.0		2.0
Phosphates (PO ₄)	<0.0500	<0.0500				

	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)
Total Alkalinity	127	116				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	28.0	50.6				
Total Hardness	155	166				
Langelier Index	-	[+ 0.311]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	<0.00500	<0.00500	0.01		0.01	
Barium (Ba)	0.0521	0.0421	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00961	0.0294	1.3		1.3	1.0
Iron (Fe)	0.392	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0179	<0.00100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00367	0.00277				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.0100	<0.0100		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.99*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	7.78*	7.93*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	397	466				
Turbidity (NTU)	14.8	0.146*	0.3		0.3	
Threshold Odor Number	17E	1C				3

Note 1: National Primary Drinking Water Regulations or Primary Standards are legally enforceable standards. National Secondary Drinking Water Regulations or Secondary Standards are non-enforceable guidelines regulating contaminants that may cause cosmetic or aesthetic effects In Drinking Water.

Note 2: TCEQ Primary Standards are the maximum contaminant level allowed for each constituent. TCEQ Primary Standards are legally enforceable standards.

Note 3: * Identifies Monthly Average Process analyses.