

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

Mineral Analysis	Raw	Treated	Standards			
			EPA Primary	EPA Secondary	TCEQ Primary	TCEQ Secondary
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	172	230		500		1000
Silica (SiO ₂)	8.75	7.89				
Iron (Fe)	0.387	<0.200		0.3		0.3
Calcium (Ca)	28.7	33.4				
Magnesium (Mg)	4.38	4.35				
Sodium (Na)	24.3	29.5				
Potassium (K)	4.59	4.58				
Bicarbonates (HCO ₃)	101	89.8				
Carbonates (CO ₃)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO ₄)	26.7	49.5		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.145	<0.0400	10		10	
Chloride (Cl)	24.1	21.3		250		300
Fluoride (F)	0.253	0.525	4.0	2.0		2.0
Phosphates (PO ₄)	0.0650	<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	82.8	73.5				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	26.5	50.1				
Total Hardness	109	124				
Langelier Index	-	[- 0.0175]				

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)	0.0476	0.0342	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00632	0.0264	1.3		1.3	1.0
Iron (Fe)	0.387	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0326	0.00237		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00245	0.00244				
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)	-	2.96*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	7.53*	7.88*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	359	463				
Turbidity (NTU)	6.64	0.150*	0.3		0.3	
Threshold Odor Number	12E	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.