

**** NORTH TEXAS MUNICIPAL WATER DISTRICT - Tawakoni**
Water Analysis
May-2019

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	130	200		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.586	0.310		0.3		0.3
Calcium (Ca)	22.5	35.1				
Magnesium (Mg)	2.35	2.66				
Sodium (Na)	6.97	12.9				
Potassium (K)	3.26	3.13				
Sulfate (SO ₄)	10.3	70.3		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.421	0.552	10		10	
Chloride (Cl)	4.5	12.3		250		300
Fluoride (F)	0.140	0.215	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.0800	<0.0100				
	(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	75.3 *	57.5 *				
Total Hardness	69.8	107				
Langelier Index		-0.6360				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00170	<0.00050	0.01		0.01	
Barium (Ba)	0.0636	0.0739	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00141	0.0215	1.3	1	1.3	1.0
Iron (Fe)	0.586	0.310		0.3		0.3
Lead (Pb)	<0.000500	<0.000500	0.015		0.015	
Manganese (Mn)	0.0333	0.00440		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00278	0.00674				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	<0.00250	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.35 *	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.50	7.50 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	188	310				
Turbidity (NTU)	14.9 *	0.05 *	0.3		0.3	
Threshold Odor Number	4.0	2.0				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. ** No odor analysis performed.