

\*\* NORTH TEXAS MUNICIPAL WATER DISTRICT - Tawakoni  
 Water Analysis  
 Dec-2019

<u>Mineral Analysis</u>	<u>Raw</u>	<u>Treated</u>	<u>Standards</u>			
			<u>EPA Primary</u>	<u>EPA Secondary</u>	<u>TCEQ Primary</u>	<u>TCEQ Secondary</u>
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	112	173		500		1000
Silica (SiO2)	3.32	3.44				
Iron (Fe)	0.358	0.313		0.3		0.3
Calcium (Ca)	35.9	38.6				
Magnesium (Mg)	2.24	2.33				
Sodium (Na)	12.1	14.2				
Potassium (K)	3.55	3.46				
Sulfate (SO4)	8.23	49.1		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.345	0.355	10		10	
Chloride (Cl)	5.2	13.4		250		300
Fluoride (F)	0.158	0.233	4.0	2.0	4	2.0
Phosphates (PO4)	0.0550	<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	77.8 *	64.5 *				
Total Hardness	72.4	99.6				
Langelier Index		-1.8353				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00133	<0.00050	0.01		0.01	
Barium (Ba)	0.0648	0.0423	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	<0.00100	0.00817	1.3	1	1.3	1.0
Iron (Fe)	0.358	0.313		0.3		0.3
Lead (Pb)	<0.000500	<0.000500	0.015		0.015	
Manganese (Mn)	0.0365	0.00185		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00216	0.00408				
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)	--	3.66 *	4.0		4.0	
Total coliform ( Present / Absent )	--	A	A		A	
pH (Standard Units) @ 25°C	7.90	8.40 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	192	297				
Turbidity (NTU)	5.7 *	0.05 *	0.3		0.3	
Threshold Odor Number	17.0	1.0				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.**