

\*\* NORTH TEXAS MUNICIPAL WATER DISTRICT - Tawakoni  
 Water Analysis  
 Mar-2020

<u>Mineral Analysis</u>	<u>Standards</u>					
	<u>Raw</u>	<u>Treated</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	109	172		500		1000
Silica (SiO2)	3.69	3.71				
Iron (Fe)	0.275	<0.200		0.3		0.3
Calcium (Ca)	23.7	37.6				
Magnesium (Mg)	2.29	2.50				
Sodium (Na)	7.52	15.4				
Potassium (K)	3.48	3.36				
Sulfate (SO4)	9.00	51.2		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.509	0.565	10		10	
Chloride (Cl)	5.4	16.8		250		300
Fluoride (F)	0.146	0.229	4.0	2.0	4	2.0
Phosphates (PO4)	0.0560	0.0120				
	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>
Total Alkalinity	75.6 *	65.0 *				
Total Hardness	72.6	104				
Langelier Index		-2.0230				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00101	<0.00050	0.01		0.01	
Barium (Ba)	0.0590	0.0500	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	0.0133	1.3	1	1.3	1.0
Iron (Fe)	0.275	<0.200		0.3		0.3
Lead (Pb)	<0.000500	<0.000500	0.015		0.015	
Manganese (Mn)	0.0161	0.00201		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00124	0.00326				
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)	--	3.98 *	4.0		4.0	
Total coliform ( Present / Absent )	--	A	A		A	
pH (Standard Units) @ 25°C	7.90	8.20 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	194	310				
Turbidity (NTU)	5.5 *	0.06 *	0.3		0.3	
Threshold Odor Number	2.0	8.0				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.**