

Bonham Water Analysis
Jan-2011

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	<50.0	186		500		1000
Silica (SiO2)	2.79	2.58				
Iron (Fe)	0.357	<0.200		0.3		0.3
Calcium (Ca)	15.2	43.3				
Magnesium (Mg)	2.06	2.26				
Sodium (Na)	3.86	9.58				
Potassium (K)	3.22	3.33				
Bicarbonates (HCO3)	66.0	77.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	<10.0	52.0		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0700	<0.0700	10		10	
Chloride (Cl)	<5.00	10.8		250		300
Fluoride (F)	<0.200	0.510	4.0	2.0		2.0
Phosphates (PO4)	0.168	0.0138				

	(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	66.0	77.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	18.0	35.0				
Total Hardness	84.0	112				
Langelier Index	-	[+ 0]				

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)	0.0603	0.0370	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00458	0.0302	1.3		1.3	1.0
Iron (Fe)	0.357	<0.200		0.3		
Lead (Pb)	0.00147	<0.00100	0.15		0.15	
Manganese (Mn)	0.0624	0.00499		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00126	0.00262				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00507	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.98*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.50*	7.90*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	127	282				
Turbidity (NTU)	9.61*	0.0570*	0.3		0.3	
Threshold Odor Number	35F	1ND				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.

Bonham Water Analysis
Feb-2011

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	128	168		500		1000
Silica (SiO2)	<2.00	<2.00				
Iron (Fe)	0.219	<0.200		0.3		0.3
Calcium (Ca)	15.2	45.4				
Magnesium (Mg)	2.16	2.22				
Sodium (Na)	3.93	8.83				
Potassium (K)	3.22	3.05				
Bicarbonates (HCO3)	53.0	76.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	<10.0	50.0		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0700	<0.0700	10		10	
Chloride (Cl)	<5.00	10.5		250		300
Fluoride (F)	<0.200	0.592	4.0	2.0		2.0
Phosphates (PO4)	0.138	0.0227				

	(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	53.0	76.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	15.0	50.0				
Total Hardness	68.0	126				
Langelier Index	-	[+ 0]				

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)	0.0610	0.0461	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00271	0.00558	1.3		1.3	1.0
Iron (Fe)	0.219	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0648	0.00805		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00130	0.00315				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.75*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.60*	7.82*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	126	297				
Turbidity (NTU)	10.5*	0.0576*	0.3		0.3	
Threshold Odor Number	17F	1ND				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.

Bonham Water Analysis
Mar-2011

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	126	188		500		1000
Silica (SiO2)	<2.00	<2.00				
Iron (Fe)	0.423	<0.200		0.3		0.3
Calcium (Ca)	15.2	39.9				
Magnesium (Mg)	2.37	2.34				
Sodium (Na)	4.12	10.8				
Potassium (K)	3.32	3.63				
Bicarbonates (HCO3)	51.0	70.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	<10.0	50.1		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0700	<0.0700	10		10	
Chloride (Cl)	<5.00	11.3		250		300
Fluoride (F)	<0.200	0.615	4.0	2.0		2.0
Phosphates (PO4)	0.0639	0.0127				

	(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	51.0	70.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	11.0	20.0				
Total Hardness	62.0	90.0				
Langelier Index	-	[+ 0]				

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)	0.0622	0.0497	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0958	0.00597	1.3		1.3	1.0
Iron (Fe)	0.423	<0.200		0.3		
Lead (Pb)	0.0672	<0.00100	0.15		0.15	
Manganese (Mn)	0.109	0.0145		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00202	0.00318				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.0125	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.68*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.84*	7.86*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	121	275				
Turbidity (NTU)	13.5*	0.0642*	0.3		0.3	
Threshold Odor Number	8F	2E				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.

Bonham Water Analysis
Apr-2011

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	102	200		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.556	<0.200		0.3		0.3
Calcium (Ca)	17.9	43.8				
Magnesium (Mg)	2.15	2.19				
Sodium (Na)	4.62	11.6				
Potassium (K)	3.97	3.91				
Bicarbonates (HCO ₃)	66.0	79.0				
Carbonates (CO ₃)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO ₄)	<10.0	50.0		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0700	0.0809	10		10	
Chloride (Cl)	<5.00	13.8		250		300
Fluoride (F)	<0.200	0.612	4.0	2.0		2.0
Phosphates (PO ₄)	0.114	<0.0200				

	(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	66.0	79.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	32.0	69.0				
Total Hardness	98.0	148				
Langelier Index	-	[+ 0]				

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)	0.0566	0.0483	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0230	0.00551	1.3		1.3	1.0
Iron (Fe)	0.556	<0.200		0.3		
Lead (Pb)	0.00866	<0.00100	0.15		0.15	
Manganese (Mn)	0.128	0.00790		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00140	0.00241				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00733	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.64*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.26*	8.14*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	133	303				
Turbidity (NTU)	14.9*	0.0732*	0.3		0.3	
Threshold Odor Number	17F	1ND				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.

North Texas Municipal Water District
 Bonham Water Analysis
 May-2011

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	92.0	190		500		1000
Silica (SiO ₂)	2.63	2.18				
Iron (Fe)	1.20	<0.200		0.3		0.3
Calcium (Ca)	15.0	45.9				
Magnesium (Mg)	2.03	2.15				
Sodium (Na)	3.63	11.7				
Potassium (K)	3.37	3.15				
Bicarbonates (HCO ₃)	44.0	68.0				
Carbonates (CO ₃)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO ₄)	<10.0	45.3		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0700	0.156	10		10	
Chloride (Cl)	<5.00	14.2		250		300
Fluoride (F)	<0.200	<0.200	4.0	2.0		2.0
Phosphates (PO ₄)	0.114	<0.0200				

	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)
Total Alkalinity	44.0	68.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	36.0	38.0				
Total Hardness	80.0	106				
Langelier Index	-	[+ 0]				

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)	0.0610	0.0468	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0105	0.0110	1.3		1.3	1.0
Iron (Fe)	1.20	<0.200		0.3		
Lead (Pb)	0.00176	<0.00100	0.15		0.15	
Manganese (Mn)	0.168	0.00628		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00160	0.00215				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00755	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.98*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.80*	8.24*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	115	300				
Turbidity (NTU)	23.7*	0.0933*	0.3		0.3	
Threshold Odor Number	4F	1ND				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.

North Texas Municipal Water District
 Bonham Water Analysis
 Jun-2011

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	84.0	218		500		1000
Silica (SiO2)	2.69	3.07				
Iron (Fe)	1.64	<0.200		0.3		0.3
Calcium (Ca)	14.7	48.8				
Magnesium (Mg)	1.90	2.08				
Sodium (Na)	3.47	18.2				
Potassium (K)	3.24	3.07				
Bicarbonates (HCO3)	55.0	66.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	<10.0	54.4		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0700	0.138	10		10	
Chloride (Cl)	<5.00	24.8		250		300
Fluoride (F)	<0.200	0.654	4.0	2.0		2.0
Phosphates (PO4)	0.190	<0.0200				

	(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	55.0	66.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	7.00	14.0				
Total Hardness	62.0	80.0				
Langelier Index	-	[+ 0]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00603	<0.00500	0.01		0.01	
Barium (Ba)	0.0816	0.0473	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00290	0.0104	1.3		1.3	1.0
Iron (Fe)	1.64	<0.200		0.3		
Lead (Pb)	0.00150	<0.00100	0.15		0.15	
Manganese (Mn)	0.812	0.0440		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00160	0.00301				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.23*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.00*	7.98*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	0.114	0.338				
Turbidity (NTU)	17.7*	0.0851*	0.3		0.3	
Threshold Odor Number	17F	1ND				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.

North Texas Municipal Water District
 Bonham Water Analysis
 Jul-2011

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	93.0	222		500		1000
Silica (SiO ₂)	3.20	3.32				
Iron (Fe)	0.370	<0.200		0.3		0.3
Calcium (Ca)	15.8	46.0				
Magnesium (Mg)	2.11	2.36				
Sodium (Na)	3.52	16.9				
Potassium (K)	3.40	3.45				
Bicarbonates (HCO ₃)	51.0	79.0				
Carbonates (CO ₃)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO ₄)	3.40	56.6		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0700	0.150	10		10	
Chloride (Cl)	3.38	22.7		250		300
Fluoride (F)	<0.200	0.765	4.0	2.0		2.0
Phosphates (PO ₄)	0.101	0.0282				

	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)
Total Alkalinity	51.0	79.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	3.00	47.0				
Total Hardness	54.0	126				
Langelier Index	-	[+ 0]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00503	<0.00500	0.01		0.01	
Barium (Ba)	0.0782	0.0579	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00173	0.0110	1.3		1.3	1.0
Iron (Fe)	0.370	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.165	0.0354		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00109	0.00282				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.26*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.12*	7.91*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	120	352				
Turbidity (NTU)	14.0*	0.0915*	0.3		0.3	
Threshold Odor Number	2F	1ND				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.

**North Texas Municipal Water District
Bonham Water Analysis
Aug-2011**

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	90.0	200		500		1000
Silica (SiO2)	4.88	4.74				
Iron (Fe)	0.358	<0.200		0.3		0.3
Calcium (Ca)	17.6	46.1				
Magnesium (Mg)	2.19	2.51				
Sodium (Na)	4.59	19.6				
Potassium (K)	4.24	4.26				
Bicarbonates (HCO3)	58.0	78.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	2.87	53.5		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0700	0.107	10		10	
Chloride (Cl)	3.73	24.4		250		300
Fluoride (F)	<0.200	0.566	4.0	2.0		2.0
Phosphates (PO4)	0.0623	0.0213				

	(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	58.0	78.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	0	48.0				
Total Hardness	50.0	126				
Langelier Index	-	[+ 0]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00507	<0.00500	0.01		0.01	
Barium (Ba)	0.0700	0.0759	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00268	0.0159	1.3		1.3	1.0
Iron (Fe)	0.358	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.131	0.111		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	<0.00100	0.00336				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.39*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.00*	7.70*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	129	349				
Turbidity (NTU)	16.4*	0.109*	0.3		0.3	
Threshold Odor Number	17F	1ND				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.

NORTH TEXAS MUNICIPAL WATER DISTRICT
 BONHAM MONTHLY WATER ANALYSIS (WO# 1138081)

MONTH: Sep 2011

	RAW	TREATED
Mineral Analysis	mg/L	mg/L
Residue on Evaporation	98.0	206
Silica (SiO2)	8.54	7.47
Iron (Fe)	0.583	<0.200
Calcium (Ca)	17.2	45.0
Magnesium (Mg)	2.29	2.44
Sodium (Na)	4.62	15.8
Potassium (K)	4.21	4.10
Bicarbonates (HCO3)	68.0	89.0
Carbonates (CO3)	0	0
Hydroxides (OH)	0	0
Sulfate (SO4)	1.30	52.3
Nitrite (NO2)	<0.0200	<0.0200
Nitrate (NO3)	<0.0700	0.105
Chloride (Cl)	3.79	20.5
Fluoride (F)	<0.200	0.751
Phosphates (PO4)	0.170	0.0242
Water Stability	mg/L as CaCO3	mg/L as CaCO3
Total Alkalinity	68.0	89.0
Phenolphthalein Alkalinity	0	0
Noncarbonate Hardness	0	37.0
Total Hardness	64.0	126
Langelier Index	-	[- 0.134]
Trace Element Analysis	mg/L	mg/L
Arsenic (As)	0.00646	<0.00500
Barium (Ba)	0.0909	0.0513
Cadmium (Cd)	<0.00100	<0.00100
Chromium (Cr)	<0.00500	<0.00500
Copper (Cu)	0.0207	0.0144
Iron (Fe)	0.583	<0.200
Lead (Pb)	0.00386	<0.00100
Manganese (Mn)	0.354	0.0339
Mercury (Hg)	<0.000100	<0.000100
Nickel (Ni)	0.00112	0.00252
Selenium (Se)	<0.00100	<0.00100
Silver (Ag)	<0.00100	<0.00100
Zinc (Zn)	<0.00500	<0.00500
Other Analysis	Units	Units
Chlorine Residual (mg/L)	-	3.33*
Total coliform (Present / Absent)	-	A
pH (Standard Units) @ 25°C	7.20*	7.60*
Specific Conductance (Umhos)	141	333
Turbidity (NTU)	22.9*	0.0818*
Threshold Odor Number	4F	1ND

Remarks: * Identifies Monthly Average Process and Field analyses.

Lab Manager: _____

Date: _____

North Texas Municipal Water District
 Bonham Water Analysis
 Oct-2011

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	110	208		500		1000
Silica (SiO2)	8.45	7.80				
Iron (Fe)	0.538	<0.200		0.3		0.3
Calcium (Ca)	18.7	51.5				
Magnesium (Mg)	2.60	2.78				
Sodium (Na)	4.87	13.7				
Potassium (K)	4.38	4.53				
Bicarbonates (HCO3)	64.0	74.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	1.76	54.9		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0700	0.101	10		10	
Chloride (Cl)	4.03	14.9		250		300
Fluoride (F)	<0.200	0.548	4.0	2.0		2.0
Phosphates (PO4)	0.141	0.0178				

	(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	64.0	74.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	0	42.0				
Total Hardness	62.0	116				
Langelier Index	-	[- 0.0890]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00501	<0.00500	0.01		0.01	
Barium (Ba)	0.0863	0.0546	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0115	0.0183	1.3		1.3	1.0
Iron (Fe)	0.538	<0.200		0.3		
Lead (Pb)	0.00120	<0.00100	0.15		0.15	
Manganese (Mn)	0.121	0.00716		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00105	0.00250				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00532	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	#DIV/0!	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.00*	7.80*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	146	319				
Turbidity (NTU)	23.1*	0*	0.3		0.3	
Threshold Odor Number	17F	1ND				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.

North Texas Municipal Water District
 Bonham Water Analysis
 Nov-2011

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	112	248		500		1000
Silica (SiO2)	6.61	5.86				
Iron (Fe)	0.648	<0.200		0.3		0.3
Calcium (Ca)	20.1	53.7				
Magnesium (Mg)	2.49	2.77				
Sodium (Na)	4.95	18.5				
Potassium (K)	4.81	4.77				
Bicarbonates (HCO3)	70.0	85.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	2.25	58.1		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.0854	0.422	10		10	
Chloride (Cl)	4.13	22.0		250		300
Fluoride (F)	<0.200	0.686	4.0	2.0		2.0
Phosphates (PO4)	0.0175	<0.0200				

	(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	70.0	85.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	10.0	55.0				
Total Hardness	80.0	140				
Langelier Index	-	[- 0.173]				

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)	0.0789	0.0543	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00544	0.0127	1.3		1.3	1.0
Iron (Fe)	0.648	<0.200		0.3		
Lead (Pb)	0.00107	<0.00100	0.15		0.15	
Manganese (Mn)	0.107	0.0112		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00123	0.00278				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.53*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	0*	0*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	144	358				
Turbidity (NTU)	10.0*	0.0763*	0.3		0.3	
Threshold Odor Number	4F	2E				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.

North Texas Municipal Water District
 Bonham Water Analysis
 Dec-2011

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	90.0	190		500		1000
Silica (SiO2)	3.49	3.30				
Iron (Fe)	0.298	<0.200		0.3		0.3
Calcium (Ca)	17.5	44.2				
Magnesium (Mg)	2.55	2.59				
Sodium (Na)	4.78	9.92				
Potassium (K)	4.18	4.00				
Bicarbonates (HCO3)	73.0	86.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	4.04	54.4		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.0701	0.321	10		10	
Chloride (Cl)	4.30	11.8		250		300
Fluoride (F)	<0.200	<0.200	4.0	2.0		2.0
Phosphates (PO4)	0.0618	<0.0200				

	(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	73.0	86.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	0	36.0				
Total Hardness	62.0	122				
Langelier Index	-	[- 0.423]				

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)	0.0613	0.0366	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00269	0.00960	1.3		1.3	1.0
Iron (Fe)	0.298	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0505	0.00362		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00106	0.00258				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00614	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.14*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.48*	7.64*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	139	272				
Turbidity (NTU)	8.65*	0.0862*	0.3		0.3	
Threshold Odor Number	17F	1ND				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.