



## Definitions and Abbreviations

ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
ppq	parts per quadrillion, or picograms per liter (pg/L)
ppt	parts per trillion, or nanograms per liter (ng/L)
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.

## Information about your Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

### Information about Source Water

M E N WSC purchases water from CITY OF CORSICANA. CITY OF CORSICANA provides purchase surface water from **Navarro Mills Lake and Lake Halbert** located in **Navarro County**.

'TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system contact **Dennis Donoho (903) 872-1899**.'

### Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli Or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample	1		0	N	Naturally present in the environment

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2019	1.3	1.3	0.13	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2019	0	15	3.5	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

## 2019 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
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Haloacetic Acids (HAA5)	2019	25	3.2-29.9	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
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\* The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year'

Total Trihalomethanes (TTHM)	2019	56	37.5-68.9	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
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\* The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year'

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
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Nitrate [measured as Nitrogen]	2019	1	0.261-0.779	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
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### Disinfectant Residual

' A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).'

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
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Chloramines	2019	1.68	0.18-2.05	4	4	mg/l	ppm	Water additive used to control microbes.
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### DEFINITIONS

ug/l parts per billion or micrograms per liter

mg/l parts per billion or micrograms per liter

## Detected Regulated Contaminates for 2019

<b>EP2 Lake Halbert</b>				
<b>SOC Pesticide</b>	Detected Quantity	MCL	Date Collected	Analytical Method
Atrazine	0.2 ug/l	N/A	1/10/2019	E525.2 GC/MS
<b>VOC's</b>	Detected Quantity	MC/L	Date Collected	Analytical Method
Chloroform	39.5 ug/l	N/A	7/29/2019	E524.2 GC/MS
Bromodichloromethane	11.8 ug/l	N/A	7/29/2019	E524.2 GC/MS
Dibromochloromethane	1.44 ug/l	N/A	7/29/2019	E524.2 GC/MS
<b>Inorganics</b>				
Chloride	10.5 mg/l	300.0 mg/l	1/10/2019	E300.0 Anions
Fluoride	0.463 mg/l	4.0 mg/l	1/10/2019	E300.0 Anions
Nitrate (as N)	0.526 mg/l	10.0mg/l	1/10/2019	E300.0 Anions
Sulfate	41.6 mg/l	300.0 mg/l	1/10/2019	E300.0 Anions
Total Dissolved Solids	168 mg/l	1000.0 mg/l	1/10/2019	SM2540C
<b>Inorganics</b>				
<b>Metals Trace Elements</b>				
Calcium Total	33.3 mg/l	N/A	1/10/2019	E200.7 Metals, Trace
Potassium Total	4.07 mg/l	N/A	1/10/2019	E200.7 Metals, Trace
Magnesium	2.56 mg//	N/A	1/10/2019	E200.7 Metals, Trace
Sodium Total	15.5 mg/l	N/A	1/10/2019	E200.7 Metals, Trace
<b>E200.8 ICP-MS</b>				
Aluminum Total	0.027 mg/l	0.2 mg/l	1/10/2019	E200.8 IC-MS
Barium Total	0.047mg/l	2.0 mg/l	1/10/2019	E200.8 IC-MS
Cyanide Total	0.0530 mg/l	0.2 mg/l	1/10/2019	E200.8 IC-MS
Copper Total	0.0029 mg/l	1.3 mg/l AL	1/10/2019	E200.8 IC-MS

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ug/l parts per million or micrograms per liter

## Detected Regulated Contaminates for 2019

<b>EP1 Navarro Mills</b>				
<b>SOC Pesticide</b>	Detected Quantity	MCL	Date Collected	Analytical Method
Atrazine	0.1ug/l	N/A	1/10/2019	E525.2 GC/MS
<b>VOC's</b>	Detected Quantity	MC/L	Date Collected	Analytical Method
Chloroform	26.4 ug/l	N/A	9/25/2019	E524.2 GC/MS
Bromodichloromethane	19.4 ug/l	N/A	9/25/2019	E524.2 GC/MS
Dibromochloromethane	7.44 ug/l	N/A	9/25/2019	E524.2 GC/MS
<b>Inorganics</b>				
Chloride	10.3 mg/l	300.0 mg/l	1/10/2019	E300.0 Anions
Fluoride	0.542 mg/l	4.0 mg/l	1/10/2019	E300.0 Anions
Nitrate (as N)	0.629 mg/l	10.0mg/l	1/10/2019	E300.0 Anions
Sulfate	42.0 mg/l	300.0 mg/l	1/10/2019	E300.0 Anions
Total Dissolved Solids	233 mg/l	1000.0 mg/l	1/10/2019	SM2540C
<b>Inorganics</b>				
<b>Metals Trace Elements</b>				
Calcium	45.2 mg/l	20,000.0 mg/l	1/10/2019	E200.7 Metals, Trace
Potassium	3.51 mg/l	20,000.0 mg/l	1/10/2019	E200.7 Metals, Trace
Magnesium	2.46 mg//	20,000.0 mg/l	1/10/2019	E200.7 Metals, Trace
Sodium Total	15.6 mg/l	20,000.0 mg/l	1/10/2019	E200.7 Metals, Trace
<b>E200.8 ICP-MS</b>				
Aluminum Total	0.033 mg/l	0.2 mg/l	1/10/2019	E200.8 IC-MS
Barium Total	0.041mg/l	2.0 mg/l	1/10/2019	E200.8 IC-MS
Copper Total	0.0025mg/l	1.3 mg/l AL	1/10/2019	E200.8 IC-MS
Manganese Total	.0028 mg/l	0.05 mg/l	1/10/2019	E200.8 IC-MS
Nickel Total	.0012mg/l	.1 mg/l	1/10/2019	E200.8 IC-MS

**Turbidity and TOC 2019**

Navarro Mills								Lake Halbert							
NTU				TOC				NTU				TOC			
Month	Average	Highest	% Compliance	Raw TOC	Tap TOC	% Removal	% Compliance	Month	Average	Highest	% Compliance	Raw TOC	Tap TOC	% Removal	% Compliance
Jan	0.08	0.17	100	4.79	3.25	32.2	129	Jan	0.06	0.16	100	4.6	3.11	32.4	129
Feb	0.08	0.11	100	3.87	2.48	35.9	239	Feb	0.06	0.13	100	4.86	2.86	41.2	118
Mar	0.10	0.14	100	3.54	2.66	24.9	166	Mar	0.06	0.16	100	4.89	3.12	36.2	103
Apr	0.1	0.15	100	3.59	2.86	20.3	136	Apr	0.08	0.20	100	4.78	3.05	36.2	103
May	0.12	0.25	100	4.14	2.99	27.8	111	May	0.07	0.17	100	4.89	3.16	35.4	99
Jun	0.11	0.22	100	4.14	2.82	31.9	116	Jun	0.07	0.45	100	4.98	2.94	41.0	117
Jul	0.11	0.20	100	4.21	2.94	30.2	105	Jul	0.06	0.11	100	4.87	3.27	32.9	105
Aug	0.1	0.15	100	3.85	2.73	29.1	116	Aug	0.04	0.11	100	4.20	2.54	39.5	113
Sep	0.08	0.16	100	3.56	2.84	20.2	116	Sep	0.04	0.10	100	3.59	2.33	35.1	140
Oct	0.08	0.14	100	3.96	2.94	25.8	103	Oct	0.04	0.09	100	3.73	2.40	35.7	143
Nov	0.06	0.11	100	3.86	2.94	23.8	136	Nov	0.04	0.09	100	3.75	2.52	32.8	131
Dec	0.07	0.13	100	3.65	2.94	21.4	122	Dec	0.04	0.08	100	3.44	2.41	29.9	120
Average	0.09			3.93	2.86	26.9	132.9		0.06			4.38	2.81	35.7	118.4
			NTU	Raw TOC	Tap TOC	% Removal									
Average Both Plants			0.07	4.16	2.83	31.3									