



**2018 Annual Drinking
WATER QUALITY REPORT
(Consumer Confidence Report)
FOR
CROSS TIMBERS WATER SUPPLY CORPORATION
PWS TX 0610020
940-584-0780
www.crosstimberswater.com**

Cross Timbers Water Supply Corporation's Drinking Water: Quality You Can Count On

Cross Timbers Water Supply Corporation (CTWSC) is pleased to present our **2018 Drinking Water Quality Report**. This report is designed to inform you about the quality of your drinking water and the services we deliver to you every day.

Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your drinking water.

CTWSC's current water sources consist of seven (7) wells that are often referred to as ground (below the surface) water and treated water we purchase from the Upper Trinity Regional Water District (UTRWD). UTRWD's water comes from lakes and goes through an extensive treatment process prior to distribution to its customers. CTWSC principally provides water service to 2,396 connections in a 20+ square mile area which includes the Towns of Bartonville, Double Oak, Copper Canyon and some unincorporated portions of south-central Denton County. A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment will allow us to focus our source water protection strategies. For more information on source water assessments and protection efforts at our system, please contact us.

Your Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements

CTWSC's Board of Directors and Staff are pleased to report that our "Superior" rated drinking water system is safe and meets federal and state requirements. As required by the U.S. Environmental Protection Agency (EPA), the Texas Commission on Environmental Quality (T.C.E.Q.) has assessed our system and made this determination. The analysis was made by using the data from the most recent U.S. EPA required tests and is presented in the attached pages. However, if you have any questions about this report or any other issue concerning your water utility, please contact Lloyd Hanson, General Manager or James Hatfield, Water Superintendent for the corporation. They can be reached by calling the office at (940) 584-0780. We want you to be informed about your water quality.

Public Participation Opportunities

If you want to learn more about CTWSC, please attend any of our regularly scheduled meetings or call our office to request to schedule one. Unless rescheduled, the Board of Directors meetings are held at 7:00 p.m. on the second Monday of every month at the office at 2032 E Hickory Hill Rd in Argyle, TX, 76226-3125. All meeting agendas, with time and date, are posted at the office and on line. If you have questions or comments, please call the office at (940) 584-0780. You may also visit our web site at www.crosstimberswater.com for more information.

SPECIAL NOTICE

Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Cross Timbers WSC: The Future

In our continuing efforts to maintain a safe and dependable water supply, CTWSC is now constructing specific system improving capital projects necessary to deliver superior service to our customers. For additional news and information, you can visit us at www.crosstimberswater.com.

Commitment

Cross Timbers Water Supply Corporation is committed to excellence in all that we do. Now and in the future, the Board of Directors and Staff will continue to strive for excellence in water quality and service. We endeavor to produce superior results and ask that our members help us protect our water sources, which are the heart of our community, our way of life, and our children's future.

If there are any questions pertaining to this report or the CTWSC system, please contact the office at (940) 584-0780.

Assurance of Quality in Our Drinking Water

Sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. All of these sources, including bottled drinking water, may reasonably be expected to contain at least small amounts of some contaminants or constituents. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or from human activity (pesticides & herbicides from agriculture, etc.) and in some cases radioactive material. Contaminants that may be present in source water before treatment include: microbes, inorganic contaminants, and organic chemical contaminants. In order to insure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain substances in water provided by public water systems.

The FDA also regulates bottled water but not as closely as the EPA regulates public water supplies. It is important to remember that the presence of constituents does not necessarily indicate that the water poses a health risk. Maximum Contaminant Levels (MCL's) are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would need to drink two (2) liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect. Many constituents (such as calcium, sodium, or iron) that are often found in drinking water can cause taste, color, and odor problems. The State of Texas, not the EPA, regulates the taste and odor, called **secondary constituents**. These constituents are not causes for health concerns. Therefore, **secondary constituents** are not required for this report but they may greatly affect the appearance and taste of your water. **Remember**, when drinking water meets federal standards there may not be any health-based benefits to purchasing bottled water or point of use devices. More information about contaminants and potential health effects can be obtained by calling the **Environmental Protection Agency's Safe Drinking Water Hotline at (1-800) 426-4791**.

CTWSC routinely monitors the constituents in your drinking water according to Federal and State laws. The tables in this report show the results of our monitoring in accordance with regulations for the period of January 1, 2018 through December 31, 2018.

Water Constituents Detected for 2018

Cross Timbers Water Supply Corporation's well water and the treated surface water purchased from the Upper Trinity Regional Water District, Texas were tested for up to 100 federally regulated or monitored constituents with no violations noted. The results are listed in the following Table (CTWSC). For a copy of the CCR for UTRWD, please see their Water Quality Report at <http://www.utrwd.com>.

TX0610020

CROSS TIMBERS WSC

Annual Water Quality Report for the period of January 1 to December 31, 2018

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

For more information regarding this report contact:

Name JAMES HATFIELD

Phone 940-584-0780

Sources of 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 EPA's 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 Assessments

A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus source water protection strategies.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: <http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=>

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <http://dww.tceq.texas.gov/DWW>

Source Water Name	Type of Water	Report Status	Location
10 - ORCHID HILL	GW	<u>A</u>	<u>Trinity Aquifer</u>
11 - COPPER HILL	GW	<u>A</u>	<u>Trinity Aquifer</u>
12 - STONEWOOD 2	GW	<u>A</u>	<u>Trinity Aquifer</u>
13 - STARGATE	GW	<u>A</u>	<u>Trinity Aquifer</u>
6 - JERNIGAN	GW	<u>A</u>	<u>Trinity Aquifer</u>
7 - CHINN CHAPEL	GW	<u>A</u>	<u>Trinity Aquifer</u>
9 - ORCHID HILL	GW	<u>A</u>	<u>Paluxy Aquifer</u>
SW FROM UPPER TRINITY REGIONAL WD CC FROM TX0610213 UPPER	SW	<u>A</u>	<u>UTRWD</u>

2018 Regulated Contaminants Detected

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	2 positive monthly sample.	2		0	N	Naturally present in the environment.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chloramines	2018	1.31	4	4	ppm	N	Water additive used to control microbes

Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	8/30/2016	1.3	1.3	0.18	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	8/30/2016	0	15	2.4	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definitions:	The following tables contain scientific terms and measures, some of which may require explanation.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
Maximum Contaminant Level or MCL:	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
Level 1 Assessment:	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
Maximum Contaminant Level Goal or MCLG:	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
Maximum residual disinfectant level or MRDL:	The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum residual disinfectant level goal or MRDLG:	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
MFL	million fibers per liter (a measure of asbestos)
na:	not applicable.
mrem:	millirems per year (a measure of radiation absorbed by the body)
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)
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.
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.
ppt	parts per trillion, or nanograms per liter (ng/L)
ppq	parts per quadrillion, or picograms per liter (pg/L)

Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2018	7.40	0 - 7.40	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2018	12.8	0 - 12.8	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	10/10/2016	0.06	0.045 - 0.06	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	10/10/2016	5.6	3 - 5.6	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	2017	1.52	0.199 - 1.52	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2018	.666	0 - 0.666	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Cyanide	2017	45.2	0 - 45.2	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	10/10/2016	4.5	0 - 4.5	0	4	pCi/L*	N	Decay of natural and man-made deposits.

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Combined Radium 226/228	2016	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion of natural deposits.
Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2018	0.1	0 - 0.1	3	3	ppb	N	Runoff from herbicide used on row crops
Simazine	2018	.06	0 - 0.06	4	4	ppb	N	Runoff from herbicide used on row crops



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