

ANNUAL WATER QUALITY REPORT

Reporting Year 2021



Presented By
City of Sanger

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (940) 458-7930.

PWS ID#: 0610006

Consistently Striving for Excellence!

Once again, we are proud to present our annual water quality report covering the period between January 1 and December 31, 2021. In a matter of only a few decades, drinking water has become exponentially safer and more reliable than at any other point in human history. Our exceptional staff continues to work hard every day—at all hours—to deliver the highest-quality drinking water without interruption. Although the challenges ahead are many, we feel that by relentlessly investing in customer outreach and education, new treatment technologies, system upgrades, and training, the payoff will be reliable, high-quality tap water delivered to you and your family.

Water Conservation Tips

You can play a role in conserving water and save yourself money in the process by becoming conscious of the amount of water your household is using and by looking for ways to use less whenever you can. It is not hard to conserve water. Here are a few tips:

- Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- Turn off the tap when brushing your teeth.
- Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.
- Check your toilets for leaks by putting a few drops of food coloring in the tank. Watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from an invisible toilet leak. Fix it and you save more than 30,000 gallons a year.
- Use your water meter to detect hidden leaks. Simply turn off all taps and water-using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.



Substances That Could Be in Water

To ensure that tap water is safe to drink, the U.S. EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily indicate that the water poses a health risk.

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 can acquire naturally occurring minerals, in some cases, radioactive material, and substances resulting from the presence of animals or from human activity. Substances 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, or wildlife; Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may result from urban stormwater 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 stormwater runoff, and residential uses; Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and which may also come from gas stations, urban stormwater runoff, and septic systems; Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities.

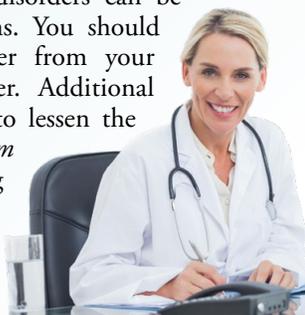
Contaminants may be found in drinking water that may cause taste, color, or odor problems. These are not necessarily health concerns. For more information on taste, odor, or color of drinking water, please contact our business office. For more information about contaminants and potential health effects, call the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

“When the well is dry, we know the worth of water.”

—Benjamin Franklin

Important Health Information

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; those 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 provider. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline at (800) 426-4791.



QUESTIONS? For more information about this report, or for any questions relating to your drinking water, please call Doug Lipscomb, Water Superintendent, at (940) 458-2571.

Source Water Assessment

The Texas Commission on Environmental Quality completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this Consumer Confidence Report. It is important to understand that a susceptibility rating of higher does not imply poor water quality, only the system's potential to become contaminated within the assessment area.

For more information on source water assessments and protection efforts at our system, contact Doug Lipscomb, (940) 458-2571. If you would like a copy of our assessment, please feel free to contact our office during regular business hours at the number provided in this report.

2021 WATER QUALITY REPORT						
WATER FROM UPPER TRINITY REGIONAL WATER DISTRICT CONSTITUENTS DETECTED FOR 2021						
UTRWD Source Water - Name: Lewisville/Chapman Lakes - Type: Surface Water - Location: Denton/Delta and Hopkins Counties						
Date	Substance	Maximum Amount In UTRWD Water	Range in UTRWD Water	MCL	MCLG	Possible Source
Regulated at the Treatment Plant						
9/27/2021	Barium (ppm)	0.041	0.033 - 0.041	2 ppm	2 ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Sept - 2021	Bromate [^] (ppb)	7.0	6.7 - 7.0	10 ppb	0 ppb	By-product of drinking water disinfection.
2/23/2021	Cyanide (ppb)	110	26 - 110	200 ppb	200 ppb	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.
2/23/2021	Fluoride (ppm)	0.214	0.168 - 0.214	4 ppm	4 ppm	Erosion of naturally-occurring deposits; Discharge from fertilizer and aluminum factories.*
2/10/2021	TOC (ppm)	3.7	1.2 - 3.7	TT	n/a	Naturally present in the environment.
2/1/2021	Turbidity ^{^^} (NTU)	0.20	0.06 - 0.20	0.3 NTU	n/a	Soil runoff.
2/23/2021	Nitrate (ppm)	0.583	0.19 - 0.583	10	10	Fertilizer runoff, Septic tanks, Animal waste runoff.
*The MCL for Bromate is the running annual average of monthly averages, computed quarterly (30 TAC § 290.114)(C).				*UTRWD does not add fluoride to its water.		
^^100% of samples were below the 0.3 NTU turbidity limit.						
Radioactive Contaminants						
9/16/2015	Combined Radium (pCi/L)	1.5	n/a	5 pCi/L	0 pCi/L	Erosion of natural deposits.
Synthetic Organic Chemicals Including Pesticides and Herbicides						
9/27/2021	Atrazine (ppb)	0.20	< 0.1 - 0.2	3 ppb	3 ppb	Runoff from herbicide used on row crops.
2/23/2021	Simazine (ppb)	0.09	< 0.06 - 0.09	4 ppb	4 ppb	Effluents at manufacturing sites, Runoff from herbicides.
<p>You may be more vulnerable than the general population to certain microbial contaminants, such as <i>Cryptosporidium</i>, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; those 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 provider. Additional guidelines on appropriate means to lessen the risk of infection by <i>Cryptosporidium</i> are available from the Safe Drinking Water Hotline at (800) 426-4791. Upper Trinity continues to analyze our source water for the presence of <i>Cryptosporidium</i>. <i>Cryptosporidium</i> has never been detected in any samples of Upper Trinity water.</p>						
Definitions:						
<p>MCL: Maximum Contaminant Level. The highest level of a contamination that is allowed in drinking water.</p> <p>MCLG: Maximum Contaminant Level Goal. The level of a contamination in drinking water below which there is no known or expected risk to health.</p> <p>NTU: Nephelometric turbidity units. A measure of turbidity in water.</p> <p>pCi/L: Picocuries per liter. A measure of radioactivity in water equal to 10-12 curies. Quantity of radioactive material producing 2.22 nuclear transformations per minute.</p> <p>ppb: Parts per Billion. One part per billion is roughly equal to one packet of artificial sweetener sprinkled into an Olympic-size swimming pool.</p> <p>ppm: Parts per million. One part per million approximates one packet of artificial sweetener sprinkled into 250 gallons of iced tea.</p>			<p>TT: Treatment Technique. A required process intended to reduce the level of a contaminant in drinking water.</p> <p>Turbidity: A measure of the clarity of water. While turbidity has no known health effects, it can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing symptoms such as nausea, cramps, diarrhea, and associated headaches.</p> <p>TOC: Total Organic Carbon. Has no known health effects. However, TOC provides a medium for the formation of disinfection by-products. These include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these by-products in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.</p>			
THIS REPORT CONTAINS THE MOST RECENT DATA AVAILABLE IN ACCORDANCE WITH REGULATIONS.						
Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, favor de llamar al telefono (972-219-1228)						
For opportunities to participate in decisions that may affect water quality, Board Meetings are held on the first Thursday of the month, starting at 1pm. Additional resources can be found at www.utrwd.com or by calling 972-219-1228						

Lead in Home Plumbing

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. This water supply is 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 two 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 at (800) 426-4791 or at www.epa.gov/safewater/lead.

Table Talk

Get the most out of the Testing Results data table with this simple suggestion. In less than a minute, you will know all there is to know about your water:

For each substance listed, compare the value in the Amount Detected column against the value in the MCL (or AL, SCL) column. If the Amount Detected value is smaller, your water meets the health and safety standards set for the substance.

Other Table Information Worth Noting

Verify that there were no violations of the state and/or federal standards in the Violation column. If there was a violation, you will see a detailed description of the event in this report.

If there is an ND or a less-than symbol (<), that means that the substance was not detected (i.e., below the detectable limits of the testing equipment).

The Range column displays the lowest and highest sample readings. If there is an NA showing, that means that only a single sample was taken to test for the substance (assuming there is a reported value in the Amount Detected column).

If there is sufficient evidence to indicate from where the substance originates, it will be listed under Typical Source.

Where Does My Water Come From?

The City of Sanger utilizes groundwater from six wells located within the city and also purchases water from Upper Trinity Regional Water District's treatment plant, which provides purchased surface water from Lewisville Lake in Denton County.

For more information about your sources of water, please refer to the Source Water Assessment and Protection Viewer available at <http://www.tceq.texas.gov/gis/swaview>. Further details about sources and source water assessments are available at Drinking Water Watch, <http://dww2.tceq.texas.gov/DWW/>.

SOURCE WATER NAME	TYPE OF WATER	REPORT STATUS	LOCATION
2 - Cherry / Second	GW	Active	Trinity
5 - S OF FM 455	GW	Active	Trinity
6- McReynolds Rd.	GW	Active	Trinity
7 - Lois Rd.	GW	Active	Trinity
8 - Cherry/Second	GW	Active	Trinity
9 - Keith Dr.	GW	Active	Trinity
SW from Upper Trinity RWD through City CC FROM TX0610213 UTRWD	SW	Active	Trinity



Test Results

Our water is monitored for many different kinds of substances on a very strict sampling schedule, and the water we deliver must meet specific health standards. Here, we only show those substances that were detected in our water (a complete list of all our analytical results is available upon request). Remember that detecting a substance does not mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels.

The state recommends monitoring for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

The percentage of total organic carbon (TOC) removal was measured each month, and the system met all TOC removal requirements set.

REGULATED SUBSTANCES							
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	MCLG [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Arsenic (ppb)	2020	10	0	1.8	ND–1.8	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium (ppm)	2020	2	2	0.012	0.012–0.012	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chlorine (ppm)	2021	[4]	[4]	1.19	0.20–4.5	No	Water additive used to control microbes
Chromium (ppb)	2020	100	100	8.3	ND–8.3	No	Discharge from steel and pulp mills; Erosion of natural deposits
Combined Radium (pCi/L)	2019	5	0	1.5	1.5–1.5	No	Erosion of natural deposits
Fluoride (ppm)	2020	4	4	0.157	0.101–0.157	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Haloacetic Acids [HAAs]–Stage 1 (ppb)	2021	60	NA	15	ND–25.8	No	By-product of drinking water disinfection
Nitrate (ppm)	2021	10	10	0.484	ND–0.484	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium (ppb)	2020	50	50	7.1	ND–7.1	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
TTHMs [total trihalomethanes]–Stage 1 (ppb)	2021	80	NA	32	2.86–50.4	No	By-product of drinking water disinfection

Tap water samples were collected for lead and copper analyses from sample sites throughout the community

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AL	MCLG	AMOUNT DETECTED (90TH %ILE)	SITES ABOVE AL/TOTAL SITES	VIOLATION	TYPICAL SOURCE
Copper (ppm)	2021	1.3	1.3	0.18	0/20	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	2021	15	0	1.6	0/20	No	Lead service lines; Corrosion of household plumbing systems, including fittings and fixtures; Erosion of natural deposits

Definitions

90th %ile: The levels reported for lead and copper represent the 90th percentile of the total number of sites tested. The 90th percentile is equal to or greater than 90% of our lead and copper detections.

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

MCL (Maximum Contaminant Level): 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.

MCLG (Maximum Contaminant Level Goal): 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.

MRDL (Maximum Residual Disinfectant Level): 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.

MRDLG (Maximum Residual Disinfectant Level Goal): 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.

NA: Not applicable.

ND (Not detected): Indicates that the substance was not found by laboratory analysis.

pCi/L (picocuries per liter): A measure of radioactivity.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).