



Texas  
Water Utilities

A SouthWest Water Company

# 2021 Drinking Water Quality Report

(Consumer Confidence Report)



## What's inside?

This is an annual, overall summary report of the water quality in your area that explains the source of your water, test results and general information for those with health concerns. The analysis was made using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what's in your drinking water. If you have any questions concerning water quality or the source of your water, please call our Regulatory Department at (512) 219-2294.

**Our drinking water meets or  
exceeds all federal (EPA)  
drinking water requirements.**



**Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems:** You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly or immune-compromised 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 (1-800-426-4791).

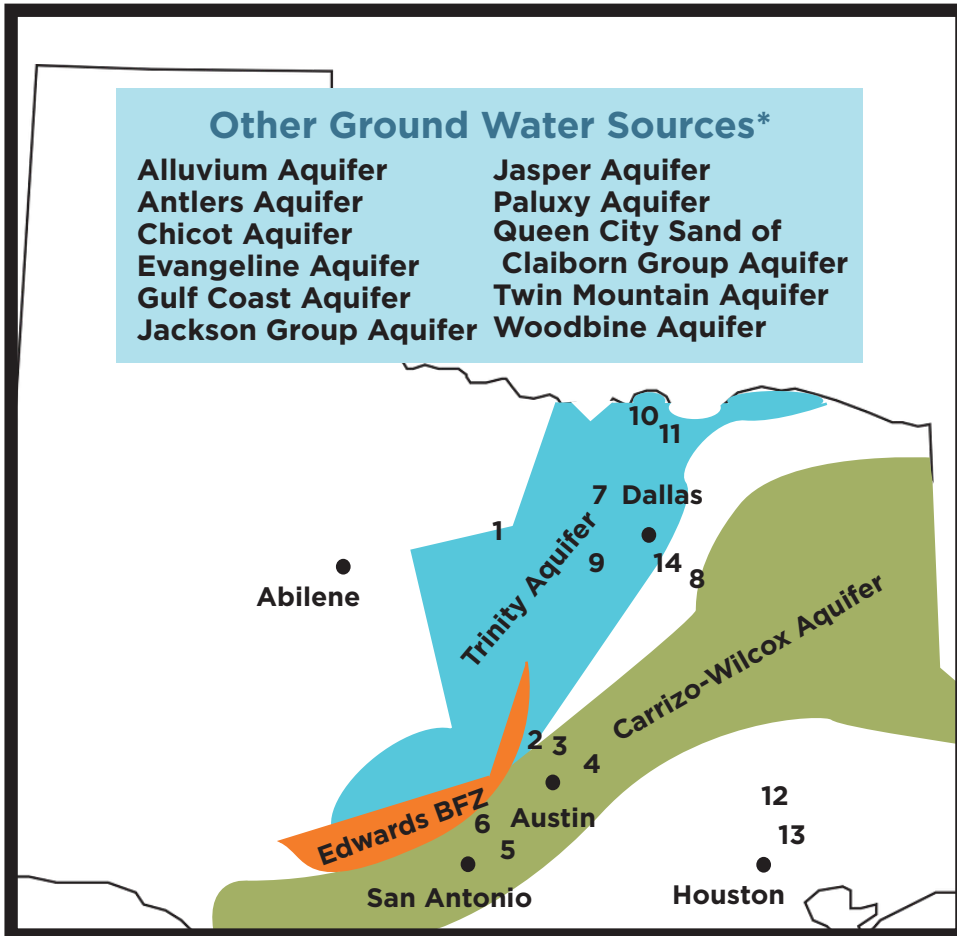
Water empowered. <sup>SM</sup>

**En Español: Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel 1-866-654-7992 para hablar con una persona bilingue en español.**

P.W.S.

# Your Water Source

## ON THE MAP



### Lake Sources

- |                       |                          |
|-----------------------|--------------------------|
| 1 Possum Kingdom Lake | 8 Lake Palestine         |
| 2 Lake Travis         | 9 Lake Granbury          |
| 3 Lake Austin         | 10 Lake Texoma           |
| 4 Lake Pflugerville   | 11 Lake Randell          |
| 5 Lake Dunlap         | 12 Lake Livingston       |
| 6 Canyon Lake         | 13 Lake Houston          |
| 7 Lake Bridgeport     | 14 Cedar Creek Reservoir |

\*These aquifers were too small to put on this map, but check them out online!

**Public Participation Opportunities:** The Utility does not hold regularly scheduled meetings. However, if you wish to contact the owners, please call our Customer Care at 866-654-7992.

## TYPES OF SOURCES

rivers

lakes

streams

ponds

reservoirs

springs

wells

## What is surface water?

The water found in rivers, streams, creeks, lakes, and reservoirs.

## What's the water quality before treatment?

Surface water is affected by many factors, which is why it requires much more filtration and sanitization. Pollutants you can find within the untreated, raw water before treatment includes: fertilizers, litter, pesticides and large particles of dirt.

## Why are there contaminants?

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. Contaminants that may be present in source water before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants. Therefore, **all drinking water may contain contaminants**. The Texas Commission on Environmental Quality (TCEQ) completed an assessment of our source water and the results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for our water system are based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, please contact us.

## HOW IS SURFACE WATER TREATED?

1

### Starts With the Source

Water comes through an intake from your local lake or reservoir.

### Coagulation

Mixing solutions are added to the water to cause dirt particles to stick together.

2

3

### Flocculation

Water is moved around to cause smaller dirt particles to collide and create larger particles.

### Sedimentation

The water then flows through a basin or tank to allow the dirt particles to sink to the bottom in order to be removed easily.

4

5

### Filtration

It passes through material that filters out the particles and other substances.

### Disinfection

This process removes any naturally-occurring germs in the water.

6

7

### Ends at Your Tap

After the water has been fully treated, it goes into a ground storage tank and is ready for you to turn on your tap.

## What are the charts about?

The charts on the pages that follow list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

## How to read the charts:

From left to right, you will see the year the water was required to be tested, the contaminant we tested for, the amount detected within the water, the acceptable level developed by the EPA, and the source of the mentioned contaminant. For an even more detailed explanation, below are the definitions of the terms used within the charts.

## DEFINITIONS

### Maximum Contaminant Level Goal (MCLG)

The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety before the contaminant reaches a harmful level.

### Maximum Contaminant Level (MCL)

The highest allowable level of a contaminant in drinking water. MCLs are set as close to the MCLGs as possible using the best available treatment technology.

### Maximum Residual Disinfectant Level Goal (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 contamination.

### Maximum Residual Disinfectant Level (MRDL)

The highest level of disinfectant allowed in drinking water. There is convincing evidence that an addition of a disinfectant is necessary for control of microbial contaminants.

### Treatment Technique (TT)

A required process intended to reduce the level of a contaminant in drinking water.

### Action Level (AL)

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

### Secondary Constituents

Many constituents (such as calcium, sodium or iron) which are often found in drinking water can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

### Abbreviations

NTU – Nephelometric Turbidity Units  
MFL – million fibers per liter (a measure of asbestos)  
pCi/L – picocuries per liter (a measure of radioactivity)  
ppm – parts per million, or milligrams per liter (mg/L)  
ppb – parts per billion, or micrograms per liter ( $\mu\text{g/L}$ )  
ppt – parts per trillion, or nanograms per liter  
ppq – parts per quadrillion, or picograms per liter

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water facts and info?**

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h2ome](http://www.swwc.com/h2ome)**

**Inorganic Contaminants**

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	MCL	MCLG	Typical Source
2021	Barium (ppm)	0.042	0.042	0.042	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2021	Fluoride (ppm)	0.039	0.039	0.039	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2021	Nitrate (ppm)	0.047	0.047	0.047	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.

**Radioactive Contaminants**

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	MCL	MCLG	Typical Source
2018	Combined Radium 226 & 228 (pCi/L)	1.5	1.5	1.5	5	0	Erosion of natural deposits.

**Synthetic Organic Contaminants**

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	MCL	MCLG	Typical Source
2021	Atrazine (ppb)	0.1	0.1	0.1	3	3	Runoff from herbicide used on row crops

**Volatile Organic Contaminants**

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	MCL	MCLG	Typical Source
2021	Ethylbenzene (ppb)	1.84	0.59	2.97	700	700	Discharge from petroleum refineries.
2021	Toluene (ppm)	0.93	0.93	0.93	1	1	Discharge from petroleum factories.
2021	Xylenes (ppm)	0.013	0.004	0.022	10	10	Discharge from petroleum factories; Discharge from chemical factories.

**Maximum Residual Disinfectant Level**

Year	Disinfectant	Our Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Typical Source
2021	Chloramines (ppm)	2.97	0.50	3.94	4.00	4.00	Disinfectant used to control microbes

**Unregulated Initial Distribution system Evaluation for Disinfection Byproducts (DBP2)**

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Typical Source
2021	Total Haloacetic Acids	44.33	30.3	47.8	60	ppb	Byproduct of drinking water disinfection.
2021	Total Trihalomethanes	55.98	40.7	77.6	80	ppb	Byproduct of drinking water disinfection.



## Unregulated Contaminants

Bromoform, chloroform, bromodichloromethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.						
Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	Unit of Measure	Typical Source
2021	Bromodichloromethane	13.63	10.8	19.5	ppb	Byproduct of drinking water disinfection.
2021	Chloroform	33.5	24.5	41.9	ppb	Byproduct of drinking water disinfection.
2021	Dibromochloromethane	3.36	2.9	4.11	ppb	Byproduct of drinking water disinfection.

*Unregulated Contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted.*

## Lead and Copper

Year	Contaminant	90% of Tests Levels Were Less Than	# of Tests With Levels Above EPA's Action Level	Action Level	Unit of Measure	Typical Source
2020	Lead	0	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2020	Copper	0.0756	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

*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 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>.*

## Turbidity

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.					
Year	Contaminant	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Typical Source
2021	Turbidity (NTU)	0.69	91%	0.3	Soil runoff.

## Total Coliform

Year	Contaminant	Highest Monthly Number of Positive Samples	MCL	Unit of Measure	Typical Source
2021	Total Coliform Bacteria	2	*	Presence	Naturally present in the environment.

*Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which*

contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessments(s) to identify problems and to correct any problems what were found during these assessments. During the past year, one Level 1 assessment was required to be completed for our water system. One level 1 assessment was completed. In addition, we were required to take one corrective action and we completed that action.

During the past year we were required to conduct one Level 1 assessment. One Level 1 assessment was completed. In addition, we were required to take zero corrective actions and we completed zero of these actions.

#### **Fecal Coliform** REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA

#### **Secondary and Other Constituents Not Regulated** (No associated adverse health effects)

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	Limit	Typical Source
2021	Aluminum (ppm)	0.054	0.054	0.054	.05	Abundant naturally occurring element.
2021	Calcium (ppm)	9.64	9.64	9.64	NA	Abundant naturally occurring element.
2021	Chloride (ppm)	25.6	25.6	25.6	300	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2017	Copper (ppm)	0.003	0.003	0.003	1	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
2021	Magnesium (ppm)	3.29	3.29	3.29	NA	Abundant naturally occurring element.
2021	Manganese (ppm)	0.047	0.047	0.047	0.05	Abundant naturally occurring element.
2021	Nickel (ppm)	0.001	0.001	0.001	NA	Erosion of natural deposits.
2021	Sodium (ppm)	24	24	24	NA	Erosion of natural deposits; byproduct of oil field activity.
2021	Sulfate (ppm)	41.9	41.9	41.9	300	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2021	Total Alkalinity as CaCO <sub>3</sub> (ppm)	26.1	26.1	26.1	NA	Naturally occurring soluble mineral salts.
2021	Total Dissolved Solids (ppm)	145	145	145	1000	Total dissolved mineral constituents in water.
2021	Total Hardness as CaCO <sub>3</sub> (ppm)	37.6	37.6	37.6	NA	Naturally occurring calcium.
2021	Zinc (ppm)	0.009	0.009	0.009	5	Moderately abundant naturally occurring element; used in the metal industry.

#### **Violations**

##### **Interim Enhanced SWTR**

The Interim Enhanced Surface Water Treatment Rule improves control of microbial contaminants, particularly Cryptosporidium, in systems using surface water, or ground water under the direct influence of surface water. The rule builds upon the treatment technique requirements of the Surface Water Treatment Rule.

Violation Type	Violation Begin	Violation End	Violation Explanation
MONTHLY COMB FLTR EFFLUENT (IESWTR/LT1)	02/01/2021	02/28/2021	Turbidity levels, though relatively low, exceeded a standard for the month indicated. Turbidity (cloudiness) levels are used to measure effective filtration of drinking water.

Public Notification Rule			
The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).			
Violation Type	Violation Begin	Violation End	Violation Explanation
PUBLIC NOTICE RULE LINKED TO VIOLATION	03/31/2021	08/31/2021	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.