

# 2021 Consumer Confidence Report for Public Water System TRAVIS COUNTY WCID 19

This is your water quality report for January 1 to December 31, 2021

For more information regarding this report contact:

TRAVIS COUNTY WCID 19 provides surface water and ground water from Travis County MUD #4 intake Lake Austin located in Travis County.

Name Travis County WCID #19

Phone 512-402-1990

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (512) 402-1990.

## Definitions and Abbreviations

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The following tables contain scientific terms and measures, some of which may require explanation.

Action Level:

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

Avg:

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

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.

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 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.

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.

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)

mrem:

millirems per year (a measure of radiation absorbed by the body)

na:

not applicable.

NTU

nephelometric turbidity units (a measure of turbidity)

pCi/L

picocuries per liter (a measure of radioactivity)

## Definitions and Abbreviations

ppb:	micrograms per liter or parts per billion
ppm:	milligrams per liter or parts per million
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 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

TRAVIS COUNTY WCID 19 purchases water from TRAVIS COUNTY MUD 4. TRAVIS COUNTY MUD 4 provides purchase surface water from Lake Austin located in Travis County.

No Source Water Assessment for your drinking water source(s) has been conducted by the TCEQ for your water system. The report describes the susceptibility and the types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information in this assessment allows us to focus our source water protection strategies.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
<b>Copper</b>	2021	1.3	1.3	0.45	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
<b>Lead</b>	2021	0	15	1	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

## 2021 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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<b>Haloacetic Acids (HAA5)</b>	2021	13	8.2 - 17.1	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

<b>Total Trihalomethanes (TTHM)</b>	2021	47	25.7 - 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

<b>Inorganic Contaminants</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Individual Samples</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
<b>Nitrate [measured as Nitrogen]</b>	2021	0.2	0.17 - 0.2	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

### Disinfectant Residual

<b>Disinfectant Residual</b>	<b>Year</b>	<b>Average Level</b>	<b>Range of Levels Detected</b>	<b>MRDL</b>	<b>MRDLG</b>	<b>Unit of Measure</b>	<b>Violation (Y/N)</b>	<b>Source in Drinking Water</b>
<b>Chloramine</b>	2021	2.02	1.7 - 2.3	4	4	ppm	N	Water additive used to control microbes.

Travis County MUD #4 - PWS TX2270325 Source Provider Data Below:

**Inorganic Contaminants**

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Contaminant
2021	Arsenic (ppm)	<0.002	<0.002	<0.002	0.01	0.01	Naturally occurring element in minerals and metals. Poisonous to multicellular life.
2013	Asbestos (MFL)	<0.1987	<0.1987	<0.1987	7	7	Decay of asbestos cement in water mains; erosion of natural deposits.
2021	Barium (ppm)	0.0591	0.0586	0.0597	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2021	Cyanide (ppm)	0.01	0.06	0.14	0.2	0.2	Discharge from industrial chemical factories.
2021	Fluoride (ppm)	0.21	0.20	0.23	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2021	Mercury (ppm)	<0.0004	<0.0004	<0.0004	0.002	0.002	Naturally occurring element. Poisonous to multicellular life.
2021	Nickel (ppm)	0.0017	0.0012	0.0023	n/a	n/a	Leaching from metals in pipes.
2021	Nitrate* (ppm)	0.22	0.21	0.23	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2016	Nitrite* (ppm)	<0.01	<0.01	<0.01	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2021	Selenium (ppm)	<0.003	<0.003	<0.003	0.05	0.05	Naturally occurring trace mineral. Promotes good health in small amounts, but can be toxic.

\*Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. If you are caring for an infant you should ask advice from your health care provider

**Organic Contaminants**

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Contaminant
2021	Atrazine (ppb)	<1.0	<1.0	<1.0	3	3	Herbicide runoff.
2021	Simazine (ppb)	<0.07	<0.07	<0.07	4.0	4.0	Herbicide runoff
2021	Toxaphene (ppb)	<1.0	<1.0	<1.0	3.0	3.0	Insecticide.
2021	Total Xylenes (ppb)	<0.5	<0.5	<0.5	3.0	3.0	Discharge from petroleum and chemical factories.

**Volatile Organic Contaminants**

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Contaminant
2021	Benzene (ppb)	<0.5	<0.5	<0.5	5.0	5.0	Petrochemical runoff.
2021	Vinyl Chloride (ppb)	<0.5	<0.5	<0.5	2	2	Leaching from PVC piping; Discharge of plastic factories

**Maximum Residual Disinfectant Level**

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Source of Disinfectant
2021	Chloramines (ppm)	2.09	1.00	3.2	4.0	<4.0	Disinfectant used to control microbes

**Disinfection Byproducts**

Year	Contaminant	LR Annual Average	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2021	Total Haloacetic Acids	0.007	0.006	0.009	60	ppm	Byproduct of drinking water disinfection.
2021	Total Trihalomethanes	0.020	0.015	0.025	80	ppm	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	Average Level	Minimum Level	Maximum Level		Unit of Measure	Source of Contaminant
2021	Chloroform	3.76	1.6	8.0		ppb	Byproduct of drinking water disinfection.
2021	Bromoform	1.73	<1	2.0		ppb	Byproduct of drinking water disinfection.
2021	Bromodichloromethane	4.18	2.2	9.1		ppb	Byproduct of drinking water disinfection.
2021	Dibromochloromethane	3.75	1.5	6.5		ppb	Byproduct of drinking water disinfection.

**Lead and Copper**

Year	Contaminant	The 90 <sup>th</sup> Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2021	Lead	0.00	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2021	Copper	0.461	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

**Required Additional Health Information for Lead**

“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 material used 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	Source of Contaminant	
2021	Turbidity (NTU)	.47	95	0.3	Soil runoff.	

**Total Organic Carbon**

Total organic carbon (TOC) has no health effects. The disinfectant can combine with TOC to form disinfection byproducts. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA) which are reported elsewhere in this report.						
Year	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2021	Source Water	13.65	3.16	81	ppm	Naturally present in the environment
2021	Drinking Water	4.44	2.55	8.1	ppm	Naturally present in the environment

2021 **Total Coliform** REPORTED MONTHLY TESTS FOUND NO TOTAL COLIFORM BACTERIA  
 2021 **Fecal Coliform** REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA

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

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Limit	Source of Contaminant
2021	Aluminum (ppm)	0.12	0.0822	0.172	0.2	Abundant naturally occurring element.
2021	Bicarbonate (ppm)	186	183	189	NA	Corrosion of carbonate rocks such as limestone.
2021	Calcium (ppm)	39.9	39.6	40.2	NA	Abundant naturally occurring element.
2021	Chloride (ppm)	41.5	41	42	300	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2021	Iron (ppm)	0.142	0.021	0.263	0.3	Abundant naturally occurring element.
2021	Magnesium (ppm)	20.05	20	20.1	NA	Abundant naturally occurring element.
2021	Manganese (ppm)	0.0009	<0.001	0.0018	0.05	Abundant naturally occurring element.
2021	pH (units)	7.61	7.71	7.53	>7.0	Measure of corrosivity of water.
2021	Sodium (ppm)	22.5	22.4	22.6	NA	Erosion of natural deposits; byproduct of oil field activity.
2021	Sulfate (ppm)	31	30	32	300	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2021	Total Alkalinity as CaCO <sub>3</sub> (ppm)	159.5	150	178	NA	Naturally occurring soluble mineral salts.
2021	Total Dissolved Solids (ppm)	299	292	306	1000	Total dissolved mineral constituents in water.
2021	Total Hardness as CaCO <sub>3</sub> (ppm)	182	181	183	NA	Naturally occurring calcium.
2021	Zinc (ppm)	0.017	0.0105	0.0236	5	Moderately abundant naturally occurring element; used in the metal industry.

**P.W.S. #2270325**