

# 2016 Annual Drinking Water Quality Report

(Consumer Confidence Report)

**TRAVIS COUNTY M.U.D. # 2**

Office Phone No. (512) 246-1400

*Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems:*

Some people may be more vulnerable to certain microbial contaminants, such as Cryptosporidium, in drinking water than the general population. 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.

The EPA/Centers for Disease Control and Prevention (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 (1-800-426-4791).

## Public Participation Opportunities

The Board of Directors meets on the 1<sup>st</sup> Wednesday every other month at 12:00 p.m. at Armbrust & Brown, 100 Congress Ave., Ste. 1300, Austin, TX 78701. Please call 435-2300 to confirm meeting dates and times.

In the water loss audit submitted to the Texas Water Development Board for the period of Jan-Dec 2016, our system, combined with Cottonwood Creek M.U.D. #1 and Wilbarger Creek M.U.D. #1 lost an estimated 2,573,316 gallons of water. This number is 9.89% of the total water produced within these three systems.

The District's water system is operated by Crossroads Utility Services, LLC. If you have any questions concerning water quality or the source of your water, please call our Regulatory Department at (512) 246-1400 or (512) 246-5905.

## Our Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements

This report is a summary of the quality of the water we provide our customers. The analysis was made by 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.

**WATER SOURCES:** 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. Contaminants that may be present in source water before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

## *En Espanol*

Este informe incluye informacion importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en espanol favor de llamar al tel. (512) 246-1400 para hablar con una persona bilingue en espanol.

### **Where do we get our drinking water?**

Your drinking water is supplied through the distribution system owned by Travis County M.U.D. #2. The District purchases water from Wilbarger Creek M.U.D. # 2. Wilbarger Creek M.U.D. # 2 purchases water from Metro H<sub>2</sub>O. Metro H<sub>2</sub>O purchases water from Cross County W.S.C (CCWSC). CCWSC obtains ground water from the Carrizo-Wilcox aquifer in Caldwell County. CCWSC and Metro H<sub>2</sub>O treat the water from these sources according to federal and state standards, removing harmful contaminants. The District constantly works with Metro H<sub>2</sub>O to provide safe drinking water. TCEQ completed an assessment of our source water and 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 report.

### ***ALL drinking water may contain contaminants.***

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices. 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 (1-800-426-4791).

### **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.

## **About the Following Pages**

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.

### **DEFINITIONS**

#### **Maximum Contaminant Level (MCL)**

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

#### **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.

#### **Maximum Residual Disinfectant Level (MRDL)**

The highest level of 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 (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.

#### **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.

### **ABBREVIATIONS**

ND – non detect

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 (mg/L)

ppt – parts per trillion, or nanograms per liter

ppq – parts per quadrillion, or picograms per liter

**Inorganic Contaminants**

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Contaminant
2016	Arsenic (ppm)	<0.002	<0.002	<0.002	0.01	0	Erosion of natural deposits; Runoff from orchards; runoff from glass and production wastes.
2015	Asbestos (MFL)	<0.197	<0.197	<0.197	7	0	Naturally occurring mineral, Leaching from asbestos pipe
2016	Barium (ppm)	0.132	0.132	0.132	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2016	Fluoride (ppm)	0.18	0.18	0.18	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2016	Nitrate (ppm)	0.05	0.05	0.05	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2015	Nitrite (ppm)	<0.01	<0.01	<0.01	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2015	Nitrate-Nitrite (ppm)	0.04	0.04	0.04	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2016	Gross alpha (pCi/L)	<3	<3	<3	15	0	Erosion of natural deposits.
2016	Gross beta emitters	<4	<4	<4	50	0	Erosion of natural deposits.

**Organic Contaminants** TESTING WAIVED, NOT REPORTED, OR NONE DETECTED

**Volatile Organic Contaminants**

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Disinfectant
2016	Vinyl Chloride	<0.5	<0.5	<0.5	2	ppb	Leaching from PVC piping; Discharge of plastic factories

**Maximum Residual Disinfectant Level**

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Disinfectant
2016	Chlorine (ppm)	2.13	1.3	3.2	4	4	Disinfectant used to control microbes.

**Disinfection Byproducts**

Year	Contaminant	LR Annual Average	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2016	Total Haloacetic Acids	1	1.1	1.1	60	ppb	Byproduct of drinking water disinfection.
2016	Total Trihalomethanes	13	12.6	12.6	80	ppb	Byproduct of drinking water disinfection.

**Unregulated Initial Distribution System Evaluation for Disinfection Byproducts**

WAIVED OR NOT YET SAMPLED

**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	MCL	Unit of Measure	Source of Contaminant
2016	Bromoform	4.4	4.4	4.4		ppb	Byproduct of drinking water disinfection.
2016	Chloroform	<1	<1	<1		ppb	Byproduct of drinking water disinfection.
2016	Bromodichloromethane	2.9	2.9	2.9		ppb	Byproduct of drinking water disinfection.
2016	Dibromochloromethane	5.3	5.3	5.3		ppb	Byproduct of drinking water disinfection.

**Turbidity** NOT REQUIRED

**Total Coliform** REPORTED MONTHLY TESTS FOUND NO TOTAL COLIFORM BACTERIA.

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

**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
2016	Lead	0.0	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2016	Copper	0.035	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 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>.

**Secondary and Other Constituents Not Regulated**

(No associated adverse health effects)

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	Limit	Source of Contaminant
2016	Aluminum (ppb)	0.0363	0.0363	0.0363	0.2	Abundant naturally occurring element.
2016	Bicarbonate (ppm)	215	215	215	NA	Corrosion of carbonate rocks such as limestone.
2016	Calcium (ppm)	9.69	9.69	9.69	NA	Abundant naturally occurring element.
2016	Chloride (ppm)	18	18	18	300	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2016	Copper (ppm)	0.0021	0.0021	0.0021	NA	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
2016	Iron (ppm)	<0.01	<0.01	<0.01	0.3	Erosion of natural deposits; iron or steel delivery equipment or facilities.
2016	Magnesium (ppm)	3.27	3.27	3.27	NA	Abundant naturally occurring element.
2016	Manganese (ppm)	0.0019	0.0019	0.0019	0.5	Abundant naturally occurring element.
2012	pH (units)	8.1	8.1	8.1	>7	Measure of corrosivity of water.
2016	Sodium (ppm)	78.6	78.6	78.6	NA	Erosion of natural deposits; byproduct of oil field activity.
2016	Total Alkalinity as CaCO <sub>3</sub> (ppm)	190	190	190	NA	Naturally occurring soluble mineral salts.
2016	Total Dissolved Solids (ppm)	269	269	269	1000	Total dissolved mineral constituents in water.
2016	Total Hardness as CaCO <sub>3</sub> (ppm)	37.7	37.7	37.7	NA	Naturally occurring calcium.
2016	Zinc (ppm)	<0.005	<0.005	<0.005	5	Moderately abundant naturally occurring element; used in the metal industry.

**Violations Table**

Lead and Copper Monitoring & Reporting			
Tri-annual sampling.			
Violation Type- Lead and Copper Rule Monitoring & Reporting Violation			
Year	Month Begin	Month End	Explanation
2016	June 2016	September 2016	Laboratory failed to report 1 lead and copper sample out of 10 that were collected.