

2017 Annual Drinking Water Quality Report published in 2018

HARRIS COUNTY MUD No. 281



OUR WATER MEETS ALL FEDERAL (EPA) AND STATE REQUIREMENTS

This report is produced to provide information about your water system including the quality of your water, the source of the water, levels of detected contaminants, and compliance with drinking water rules.

The Texas Commission on Environmental Quality (TCEQ) assessed our system, Harris County Municipal Utility District No. 281 (MUD 281), and determined that our water meets all federal and state requirements for quality. The analysis was made by using the data in the tables in this report which uses testing results from 2013 through 2017. Because our water meets all state and federal drinking water health standards for the sampling period, there may not be any health based benefits to purchasing bottled water or point of use devices. MUD 281 system identification number is 1013178. Thank you for taking the time to read and learn about the water you drink.

The District has been designated a "Superior" system for meeting stringent criteria set forth by the Texas Commission on Environmental Quality (TCEQ).



En Español – Este reporte incluye informacion importante sobre el agua para tomar. Si tiene preguntas o discusiones sobre este reporte en espanol, favor de llamar al tel. 281.376.8802 par hablar con una persona bilingue en espanol.

PUBLIC PARTICIPATION

MUD 281 meets at 11:00 a.m. on the first Monday of each month at 1300 Post Oak Blvd., Suite 1400, Houston, Texas. Any last minute cancellations will be posted at the clubhouse, 12650 Norhtpointe Terrace. Call 281.376.8802 for directions.

TABLE INFORMATION The tables contain chemical constituents which have been found in your drinking water. The TCEQ and the Environmental Protection Agency (EPA) require water systems to test up to 97 constituents. Only eight regulated constituents were detected in MUD 281's water, and these were well below the maximum contaminant level allowed in drinking water. The agencies do not require some contaminants to be monitored annually because their concentrations are not expected to vary. This report, also referred to as a Consumer Confidence Report (CCR), states the results of the most current water testing from 2013 through 2017.

INORGANICS - REGULATED									
Year Tested	Contaminant Detected	Unit of Measure	Average Level*	Minimum Level*	Maximum Level*	Allowed (EPA's MCL)	MCLG	Meets Standards	Possible source of Contaminant
2017	Arsenic	ppb	2.800	2.800	2.800	10.0	0.0	yes	Erosion of natural deposits
2017	Barium	ppm	0.144	0.144	0.144	2.0	2.0	yes	Erosion of natural deposits
2017	Chromium	ppb	12.600	12.600	12.600	100.0	100.0	yes	Erosion of natural deposits
2017	Fluoride**	ppm	1.860	1.860	1.860	4.0	4.0	yes	Erosion of natural deposits
2017	Nitrate	ppm	0.020	0.020	0.020	10.0	10.0	yes	Erosion of natural deposits
2017	Selenium	ppb	8.600	8.600	8.600	50.0	50.0	yes	Erosion of natural deposits

**** FLUORIDE INFORMATION** The above reported level of fluoride is from one sample collected by the state in 2017. MUD 281 actually samples the fluoride level weekly. In 2017, the average weekly fluoride level was 1.3 ppm. This level is within the acceptable EPA limit. **We encourage you to inform your dentist of the current level before receiving any additional fluoride treatment.**

DISINFECTANT RESIDUALS								
Year	Constituent	Unit	Average	Minimum	Maximum	MRDL	MRDLG	Source
2017	Free Chlorine	ppm	2.64	0.60	3.60	4.0	4.0	Water additive used to control microbes

DISINFECTION BYPRODUCTS - REGULATED							Disinfectant Byproducts (DBPs) are formed when disinfectants (such as Free Chlorine) reacts with natural organic material in water. The District monitors the water distribution system as required by Stage 2 of the federal Disinfectant Byproduct Rule
Year	Constituent	Unit	Avg*	Min*	Max*	MCL	
2017	Total Haloacetic Acids	ppb	2.00	2.00	2.00	60	
2017	Total Trihalomethanes	ppb	7.70	7.70	7.70	80	

UNREGULATED CONTAMINANTS

The District participated in gathering data under the Unregulated Contaminant Monitoring Rule (UCMR) in order to assist EPA in determining the occurrence of possible drinking water contaminants. If any unregulated contaminants were detected, they are shown in the tables in this report. This data may also be found on EPA's web site at www.epa.gov/safewater/data/ncod, or you can call the Safe Drinking Water Hotline at 1.800.426.4791.

SECONDARY CONSTITUENTS

Many contaminants (such as calcium, sodium, or iron) which are often found in drinking water can cause taste, color, and odor problems. These constituents are called secondary contaminants and are regulated by the State of Texas, not EPA. The secondary constituents are not necessarily causes for health concerns. Therefore, secondaries are not required to be reported in this document, but they may greatly affect the appearance and taste of your water. For more information on taste, odor or color of drinking water, please contact WDM, 281.376.38802.

CONTAMINANTS - UNREGULATED						
Year	Contaminant	Unit	Average*	Minimum*	Maximum*	Source of Contaminant
2017	Bromodichloromethane	ppb	1.50	1.50	1.50	The Unregulated Contaminants are a by-product of the drinking water disinfection.
2017	Bromoform	ppb	3.30	3.30	3.30	
2017	Dibromochloromethane	ppb	3.50	3.50	3.50	

SECONDARY CONSTITUENT - UNREGULATED						
Year	Contaminant	Unit	Average*	Minimum*	Maximum*	Source
2017	Sodium	ppm	219.00	219.00	219.00	no standards set Erosion of natural deposits

* When there is only one sample, the average, minimum, and maximum will be the same number.

TERMS USED IN THIS REPORT

Contaminant: The technical term for anything else in water except pure water is "contaminant." Technically, pure, fresh orange juice can be considered water which has been "contaminated" by the oil, orange pulp and flavorings in the orange which make it taste so good. Obviously, some contaminants aren't good and can actually be hazardous to your health at specific levels. Those are the ones that are tested and measured.

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

MCL, Max. Contaminant Level: The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. MCLs are set at very stringent levels.

MCLG, Max. Contaminant Level Goal: 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.

MRDL, Max. Residual Disinfectant Level: 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.

MRDLG, Max. 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 contamination.

n/a: not established at this time

ppm - Part per million: One part per million equals one teaspoon in 1,302 gallons, which is enough water to fill a typical bathtub over 40 times.

ppb - Part per billion: One part per billion equals one teaspoon in 1,302,000 gallons, which is enough water to fill a typical bathtub over 40,000 times.

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.



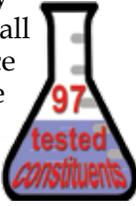
No cost option for your convenience.

www.eonlinebill.com/bapp/wdm/index1

WHAT'S IN THE WATER The EPA prescribes regulations that 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.

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, or at the following web site: www.epa.gov/safewater.

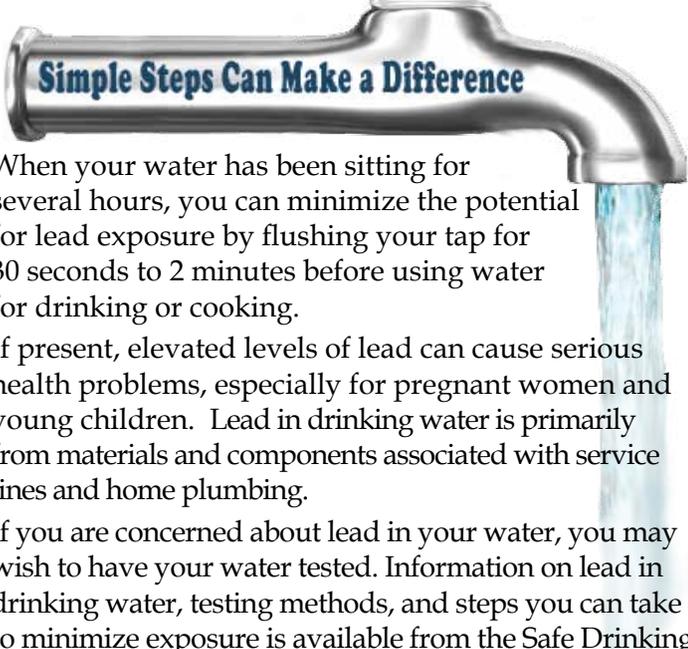


WHERE YOUR WATER COMES FROM MUD 281 obtains its water from two wells, both of which are located here in the area and jointly owned with HC MUD No. 280 and HC MUD No. 282. The wells draw water from the Jasper and Evangeline Aquifers. The District maintains an interconnect valve with Northwest HC MUD No. 15 which is governed by the same drinking water regulations as MUD 281. The valve is opened only in the event of an emergency or maintenance.

For information on MUD No. 281's water quality, you may contact WDM at 281.376.8802.

INFORMATION ON LEAD IN WATER

MUD 281 is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components in your home and business.



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 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.

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 www.epa.gov/safewater/lead.

LEAD AND COPPER – TESTED AT THE CUSTOMER'S TAP (SAMPLES COLLECTED FROM 20 HOMES)

Year Tested	Substance	Unit of Measure	90th Percentile	No. of Homes Exceeding Action Level	Action Level	Possible Sources of Lead and Copper
2017	Lead	ppb	0.679	0 of 20	15.0	Corrosion of household plumbing systems and erosion of natural deposits
2017	Copper	ppm	0.0925	0 of 20	1.3	

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

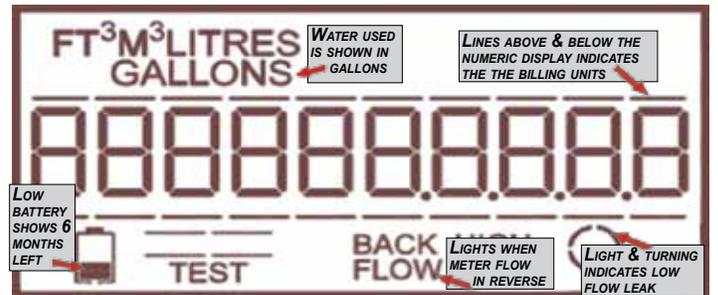
SOURCE WATER ASSESSMENT The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, contact Water District Management at 281-376-8802.

ADDITIONAL TESTING Additional testing is done daily at the water plant and throughout the community at various locations to ensure that a safe level of disinfectant is in the system. Water samples are sent to an independent state approved laboratory to verify the absence of harmful bacteria. No such bacteria has been detected in this water system.

HOW TO FIND A LEAK WITH YOUR WATER METER

Your water meter is usually located between the sidewalk and curb under a cover.

To determine if you have a leak, turn off all the water in your home, both indoor and outdoor faucets, and then check the dial for any movement of the low-flow indicator. Movement indicates a leak.



Low-Flow Indicator – The low flow indicator illuminates and turns if water is flowing through the meter.

The numbers to the right of the decimal indicate water usage that is less than 1,000 gallons. Customers are charged for only 1,000s of gallons of water used.



STAY INFORMED Receive important messages by signing up at: <https://harriscountymud281.bbcportal.com/>



The DOs & DON'Ts of Water Conservation

BATHROOM

- ✓ Do take shorter showers and/or fill the tub halfway.
- ✗ Don't run water while washing your hands or brushing your teeth.

KITCHEN & LAUNDRY

- ✓ Do run the dishwasher & washing machine only when full.
- ✗ Don't let the water run while washing dishes. Kitchen faucets use 2 - 3 gallons a minute.

EVERYWHERE

- ✓ Do install water -saving fixtures.
- ✗ Don't ignore water leaks. Turn taps off tightly.

OUTDOORS

- ✓ Do use a self-closing nozzle on your hose. Put sprinklers on a timer to shut off automatically.
- ✗ Don't water sidewalks, drives or the street.

HAVE QUESTIONS

More information about particular health risks or contaminants may be available at:

- ➔ EPA www.epa.gov/safewater/ccr/frequentquestions
1.800.426.4791
- ➔ Harris County Health Department
713.439.6000
- ➔ Water District Management (WDM), the Operator
281.376.8802

This Report is also available online at www.wdmtexas.com.

SPECIAL NOTICE FOR THE ELDERLY, INFANTS, CANCER PATIENTS, AND PEOPLE WITH 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 immuno-compromised such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; those who are undergoing treatment with steroids; and people with or other immune system disorders can be particularly at risk to 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 1.800.426.4791.