

HARRIS COUNTY M.U.D. NO. 24

2018 Drinking Water Quality Report

OUR DRINKING WATER IS SAFE

The Texas Commission on Environmental Quality (TCEQ), has assessed our system and determined that our water is safe to drink. The analysis was made by using the data in the attached tables. Your water meets federal standards set forth by the USEPA, there may not be health based benefits to purchasing bottled water or point of use devices.

En Español

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

Where do we get our drinking water?

Our drinking water is obtained from ground water and surface water sources. The ground water comes from the Gulf Coast Aquifers some 500 to 2,000 feet below ground surface. Surface water is provided by the North Harris County Regional Water Authority and is treated water from Lake Houston. TCEQ 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 is 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 Howard Wilhite at 281-353-9809.

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).

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 Immuno-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 Safe Drinking Water Hotline (800-426-4791).

Contaminants that may be Present in Source Water

The sources of drinking water (both tap 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 include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic system, agricultural livestock operations, and wildlife;
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or 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 can also come from gas stations, urban stormwater runoff, and septic systems; and
- 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, the USEPA prescribes regulations that limits the amount of certain contaminants in water provided by public water systems. Federal Food and Drug Administration Agency regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

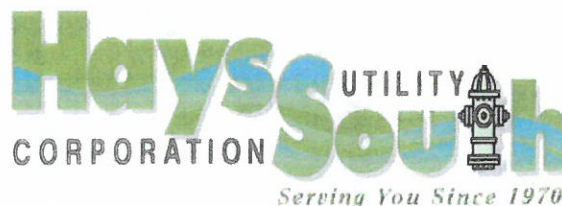
Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

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.

EPA website: www.epa.gov/safewater

FDA website: www.nrdc.org/nrdc/nrdcpro/bw/bwinx

Public input concerning your water system may be made at regularly scheduled meetings on the first and third Wednesday of each month at 6:00 p.m. at 17035 Deer Creek. You may contact Howard Wilhite, Hays Utility South Corporation at 281-353-9809 with any concerns or questions you may have.



About the Following Table

The following table contains all of the chemical constituents which have been found in your drinking water for the most recent testing performed in accordance with applicable regulations. USEPA requires water systems to test up to 97 constituents. The constituents detected in your water are listed in the attached table.

DEFINITIONS

Maximum Contaminant Level (MCL) - The highest level of a contaminant in drinking water. MCL's are set as close to the MCLG's 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. MCLG's allow for a margin of safety.

ppm = parts per million or milligrams per liter (mg/l), one part per million corresponds to one minute in two years or a single penny in \$10,000.

ppb = parts per billion or micrograms per liter (mg/l), one part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.

pCi/l = pico curies per liter: Measure of radioactivity.

Maximum Residual Disinfectant Level (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.

Inorganic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2017	Barium	0.146	0.112-0.146	2	2	ppm	Erosion of natural deposits.
2017	Fluoride	1.70	1.27-1.70	4	4	ppm	Erosion of natural deposits.
2017	Nitrate	0.09	0.06-0.09	10	10	ppm	Erosion of natural deposits.
2015	Nitrite	0.04	0.04-0.04	10	10	ppm	Erosion of natural deposits.
2017	Cyanide	0.07	0.07-0.07	2	2	ppb	Erosion of natural deposits.

Unregulated Contaminants**				
Year	Constituent	Average of All Sampling Points	Range of Detected Levels	Units of Measure
2018	Chloroform	16.75	7.4-16.6	ppb
2018	Bromodichloromethane	2.05	1.7-2.4	ppb
2015	Bromoform	2.05	1.8-2.3	ppb
2015	Dibromoacetic Acid	1.0	1.0-1.0	ppb
2018	Bromochloroacetic Acid	2.3	2.1-2.5	ppb
2015	Dibromodichloromethane	2.65	2.3-3.0	ppb
2018	Dichloroacetic Acid	10.6	14.9-16.3	ppb
2016	Monochloroacetic Acid	3.8	3.8-3.8	ppb
2018	Trichloroacetic Acid	2.7	2.4-3.0	ppb

**Unregulated contaminants are those for which 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 regulation is warranted.

Disinfectant Residual							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2018	Chlorine Disinfectant	4.30	0.98-4.30	4	0	ppm	Disinfectant used to control microbes.

Radioactive Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2014	Combined Radium 226/228	1	1-1	5	0	pCi/L	Erosion of natural deposits.
2017	Gross Beta	5	5-5	4	0	mrem/yr	Decay of natural and man-made deposits.

Organic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2018	Total Haloacetic Acids	18.3	17.3-19.3	60	n/a	ppb	By-product of drinking water chlorination.
2018	Total Trihalomethanes	19.0	9.1-19.0	80	n/a	ppb	By-product of drinking water chlorination.

Lead and Copper						
Year	Constituent	The 90th Percentile	Number of Sites Exceeding Action Levels	Action Level	Units of Measure	Source of Constituent
2016	Lead	4	0	15	ppb	Corrosion of household plumbing system.
2016	Copper	0.083	0	1.3	ppm	Corrosion of household plumbing system.

The 90th percentile of the Lead/ Copper analysis means the top 10% (highest sample results) of all samples collected.

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>.

Volatile Organic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2017	Total Xylenes	1.2	0-1.2	10	10	ppb	Discharge from petroleum and chemical factories.
2017	Toluene	1.3	0-1.3	1000	0	ppb	Gas Intrusion

During 2018, Harris County M.U.D. No. 24 received surface water from the North Harris County Regional Water Authority. The following water quality information was provided by the North Harris County Regional Water Authority:

Inorganic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2017	Barium	0.0597	0.0597-0.0597	2	2	ppm	Erosion of natural deposits.
2018	Nitrate	0.78	0.78-0.78	10	10	ppm	Erosion of natural deposits.
2018	Fluoride	0.11	0.11-0.11	4	4	ppm	Erosion of natural deposits.

Organic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2018	Simazine	0.14	0.14-0.14	4	4	ppb	Runoff from herbicides used on row crops.
2018	Atrazine	0.24	0.24-0.24	3	3	ppb	Runoff from herbicides used on row crops.
2016	Total Trihalomethanes	32	32-32	60	n/a	ppb	By-product of drinking water chlorination.
2016	Total Haloacetic Acids	34.7	34.7-34.7	80	n/a	ppb	By-product of drinking water chlorination.

Unregulated Contaminants**				
Year	Constituent	Average of All Sampling Points	Range of Detected Levels	Units of Measure
2018	Chloroform	8.4	8.4-8.4	ppb
2018	Bromodichloromethane	2.0	2.0-2.0	ppb
2016	Bromochloroacetic Acid	3.2	3.2-3.2	ppb
2016	Dichloroacetic Acid	19.4	19.4-19.4	ppb
2016	Monochloroacetic Acid	10.5	10.5-10.5	ppb
2016	Trichloroacetic Acid	4.8	4.8-4.8	ppb

**Unregulated contaminants are those for which 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 regulation is warranted.

Year	Constituent	Highest Detected Level at Any Sampling Point	Turbidity**		Units of Measure	Source of Constituent
			Range of Detected Levels	Monthly Limits		
2018	Turbidity	0.23	0.09-0.23	0.3	NTU	Soil runoff.

**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 organism. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.