

HARRIS COUNTY M.U.D. NO. 189

2024 Drinking Water Quality Report

This report is an annual summary of the quality of your drinking water. It is required by the Texas Commission on Environmental Quality and is based on the most recent U.S. Environmental Protection Agency required tests.

OUR DRINKING WATER IS SAFE

The Texas Commission on Environmental Quality (TCEQ), has 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 and protection efforts at our systems contact Natalia Espitia at: (281) 353-9809.

En Español

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono: (281) 353-9809

Where do we get our drinking water?

The source of drinking water used by Harris County MUD 189 is ground water. It comes from the Gulf Coast Aquifers 500 to 2,000 feet below ground surface.

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.

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).

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 EPA prescribes regulations that limits the amount of certain contaminants in water provided by public water systems. Federal Food and Drug Administration 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 h2o innovation at (281) 353-9809.

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).

Public Participation Opportunities:

The Harris County MUD 189 Board of Directors meet at noon on the first Monday of each month at the offices of 1550 Lamar Street, Suite 2000, Houston, Texas 77010. You may contact Natalia Espitia, with H2O Innovation 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.

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

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

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 (ug/L), one part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.

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

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.

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 contaminants.

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Inorganic Contaminants								
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Violation	Source of Constituent
2023	Arsenic*	7.00	4.40 - 7.00	10	0	ppb	N	Erosion of natural deposits.
2023	Barium	0.481	0.387 - 0.481	2	2	ppm	N	Discharge of drilling wastes.
2023	Fluoride	0.24	0.13 - 0.24	4	4	ppm	N	Erosion of natural deposits.
2021	Nitrate	0.05	0.04 - 0.05	10	10	ppm	N	Runoff from fertilizer use.
2023	Dichloromethane	2.10	0.00 - 2.10	5	0	ppb	N	Discharge from pharmaceutical and chemical factories.

*While your drinking water meets EPA standards for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Radioactive Contaminants								
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Violation	Source of Constituent
2023	Gross alpha excluding radon and uranium	3.20	3.20 - 3.20	15	0	pCi/l	N	Erosion of natural deposits.
2022	Uranium	2.00	2.00 - 2.00	30	0	ug/l	N	Erosion of natural deposits.

Disinfectant Residual								
Year	Constituent	Highest Average	Range of Detected Levels	MRDL	MRDLG	Units of Measure	Violation	Source of Constituent
2024	Chlorine Disinfectant	1.76	0.71 - 2.59	4	4	ppm	N	Water additive used to control microbes.

Unregulated Contaminants*					
Year	Constituent	Average of All Sampling Points	Range of Detected Levels	Units of Measure	Violation
2024	Bromodichloromethane	1.30	1.30 - 1.30	ppb	N
2024	Dibromochloromethane	1.25	1.10 - 1.40	ppb	N
2023	Dichloromethane	2.10	0.00 - 2.10	ppb	N

*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.

Disinfection By Products

Year	Constituent	Highest Average	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2024	Total Trihalomethanes (TTHM)	2.70	2.70 - 2.70	80	n/a	ppb	By product of drinking water disinfection.
2022	Haloacetic Acids (HAA5)	1.00	1.00 - 1.00	60	n/a	ppb	By product of drinking water disinfection.

*The Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year.

Lead and Copper

Year	Constituent	The 90th Percentile	Number Exceeding Action Level	Action Level	MCLG	Units of Measure	Source of Constituent
2024	Lead	0.551	0	15	0	ppb	Corrosion of household plumbing systems; Erosion of natural deposits
2024	Copper	0.0299	0	1.3	1.3	ppm	Erosion of natural deposits; Leaching from wood preservatives

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>.

Harris County MUD 189 completed a Lead Service Line Inventory - This report reflects 163 sites that we can not categorize as neither Lead or Galvanized piping. 5 sites were categorized as Galvanized Piping requiring replacement. Field investigation are still in place to determine the correct categorization for the sites determined as unknown. If you would like a copy of this report, you can contact Natalia Espitia with H2O Innovation at: (281) 353-9809.