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Harris County MUD No. 102
406 W. Grand Parkway S., Suite 260
Katy, Texas 77494

HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 102

2021

ANNUAL DRINKING WATER QUALITY REPORT

This annual Drinking Water Quality Report provides information on your District's drinking water. The United States Environmental Protection Agency (EPA) requires that all drinking water suppliers in the country provide a water quality report to their customers annually.

En Espanol

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, favor de llamar al telefono (281) 290-3107.

Public Participation Opportunities

The Board of Directors of the District meets at 6:00 PM on the fourth Monday of each month at Water Plant No. 2 at 15300 Falmouth, Houston, Texas 77084, north of the intersection of Falmouth Ave and Kentwick Dr.

You may mail comments to:
Harris County Municipal Utility District No. 102
Attn: Board of Directors

406 W. Grand Parkway S, Suite 260, Katy, Texas 77494

Or Call: (281) 290-6500

Our Drinking Water Meets 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 following pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

SPECIAL NOTICE

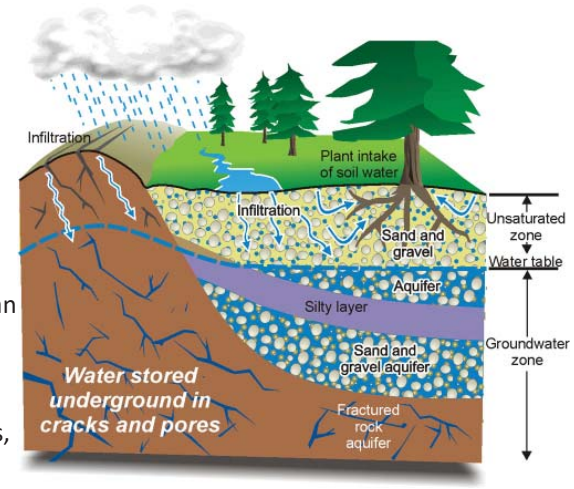
You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer, those who have undergone organ transplants, those who are undergoing 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 providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800) 426-4791.

Where Do We Get Our Water?

Our drinking water is obtained from groundwater and surface water sources. Our water comes from the Evangeline and Chicot aquifers and the Trinity River via the West Harris County Regional Water Authority, which purchases water from the City of 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 are based on this susceptibility and previous sample data. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment will allow us to focus our source water protections strategies. This source water assessment information is available on Texas Drinking Water Watch at dww2.tceq.texas.gov/DWW/. For more information on source water assessments and protection efforts at our system, please contact us at 281-290-3107.

Water Sources

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 before treatment include: microbes, inorganic contaminants, pesticides, herbicides, organic chemical contaminants, and radioactive contaminants.



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

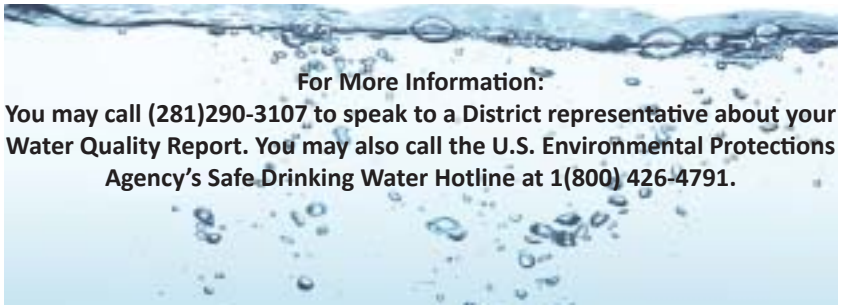
Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concern. For more information on taste, odor, or color of drinking water, please contact the system's business office. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. Therefore, secondaries are not required to be reported in this document, but they may greatly affect the appearance and taste of your water.

Harris County Municipal Utility District No. 102 Drinking Water Quality Report Results

PWSID: 1010503

About the Tables

The following tables 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. All contaminants detected in your water are below state and federal allowed levels. The State of Texas allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.



For More Information:

You may call (281)290-3107 to speak to a District representative about your Water Quality Report. You may also call the U.S. Environmental Protections Agency's Safe Drinking Water Hotline at 1(800) 426-4791.

In the water loss audit submitted to the Texas Water Development Board for the time period of January-December 2021, our system lost an estimated 47,218,231 gallons of water out of 336,570,581 gallons metered. If you have any questions about the water loss please call (281)290-3107.

Drinking Water Definitions and Units Description

NA: Not Applicable
ND: Not Detected
NR: Not Reported
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 (ug/L)
MNR: Monitoring not required, but recommended
MCL: Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to maximum contaminant level goals as feasible using the best available treatment technology.
MCLG: Maximum 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: Maximum Residual Disinfection Level: 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.
MRDLG: Maximum Residual Disinfection 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 contaminants.
AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
NTU: Nephelometric Turbidity Units (a measure of turbidity)
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 Escherichia coli (E. coli) maximum contaminant level (MCL) violation has occurred and/or why total coliform bacteria were found on multiple occasions.

REGULATED INORGANIC CONTAMINANTS

YEAR	Contaminant (Unit of Measure)	Highest or Average Level Detected at Entry Points	Highest Level Detected Surface Water (WHCRWA)	Range of Detected Levels	Violation	MCL	MCLG	Source of Contaminant
2021	Arsenic (ppb)	2.2	2.0	ND - 2.2	No	10	0	Erosion of natural deposits
2021	Barium (ppm)	0.132	0.0568	0.0492 - 0.132	No	2	2	Erosion of natural deposits
2021	Cyanide (ppb)	100	50	20 - 100	No	200	200	Discharge from steel/metal factories
2021	Fluoride (ppm)	0.25	0.24	ND - 0.25	No	4	4	Erosion of natural deposits
2021	Nitrate (ppm)	0.37	0.39	ND - 0.39	No	10	10	Erosion of natural deposits
2019	Selenium (ppb)	3.1	ND	ND - 3.1	No	50	50	Erosion of natural deposits
2017-2020	Alpha Emitters (pCi/L)	3.9	ND	ND - 3.9	No	15	0	Erosion of natural deposits
2017-2020	Beta emitter (pCi/L)	5.0	5.9	ND - 5.9	No	50	0	Erosion of natural and man made deposits
2017-2020	Uranium (ug/L)	3.7	ND	ND - 3.7	No	30	0	Erosion of natural deposits

DISINFECTION BY-PRODUCT RESULTS

YEAR	Contaminant (Unit of Measure)	Highest Average Level Detected	Range of detected levels	Violation	MCL	Source of Contaminant
2021	Total Haloacetic Acids (ppb)	18.93	3.9 - 42.5	No	60	Byproduct of drinking water disinfection
2021	Total Trihalomethanes (ppb)	20.95	4.5 - 38.9	No	80	Byproduct of drinking water disinfection

Harris County Municipal Utility District No. 102 Drinking Water Quality Report Results

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DISINFECTION RESIDUAL LEVELS

YEAR	Contaminant (Unit of Measure)	Highest Average Level Detected	Range of detected levels	Violation	MRDL	MRDLG	Source of Contaminant
2021	Free Chlorine and Chloramines (ppm)	2.88	0.53 - 4.00	No	4	4	Disinfectant used to control microbes

UNREGULATED CONTAMINANTS

YEAR	Contaminant (Unit of Measure)	Highest Level Detected at Entry Point	Highest Level Detected Surface Water	Range of all Detected Levels
2020	Bromoform (ppb)	1.4	ND	ND - 1.4
2021	Bromodichloromethane (ppb)	8.0	8.5	1.1 - 8.5
2021	Chloroform (ppb)	9.9	28	9.9 - 28
2021	Dibromochloromethane (ppb)	2.6	2.7	ND - 2.7
2019	Manganese (ppb)	5.1	NA	1.1 - 5.1
2019	Germanium (ppb)	0.3	NA	ND - 0.3
2018	1-Butanol (ppb)	2.0	NA	ND - 2.0
2019	HAA5 (ppb)	75.36	NA	ND - 75.36
2019	HAA6Br (ppb)	11.401	NA	ND - 11.401
2019	HAA9 (ppb)	85.742	NA	ND - 85.742

Unregulated Contaminant Monitoring Reporting (UCMR)

In 2018 and 2019 your District conducted UCMR monitoring. There were several detections of unregulated contaminants and they are listed in the table itled "Unregulated Contaminants." The following language is required to be included in this report:

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. Any unregulated contaminants detected are reported in the following table. For additional information and data, visit https://www.epa.gov/dwucmr/fourth-unregulated-contaminant-monitoring-rule, or call the Safe Drinking Water Hotline at (800) 426-4791.

TURBIDITY

YEAR	Contaminant (Unit of Measure)	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Source of Contaminant
2021	Turbidity (NTU)	0.49	98.9	0.3	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 organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

LEAD AND COPPER

YEAR	Contaminant (Unit of Measure)	90th Percentile	No. of site exceeding Action level	Violation	Action Level	Source of Contaminant
2019	Lead (ppb)	ND	0	No	15	Corrosion of household plumbing
2019	Copper (ppm)	0.24	0	No	1.3	Corrosion of household plumbing

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.

REGULATED ORGANIC CONTAMINANTS

YEAR	Contaminant (Unit of Measure)	Highest Level Detected at Entry Points	Highest Level Detected Surface Water	Range of Detected Levels	Violation	MCL	MCLG	Source of Contaminant
2021	Atrazine (ppb)	0.13	0.64	ND - 0.64	No	3	3	Runoff from herbicide used on row crops
2018	Benzo(a)pyrene (ppt)	ND	40	ND - 40	No	200	0	Leaching from linings of water storage tanks and distribution lines
2018	Di(2-ethylhexyl)phthalate (ppb)	0.64	0.69	ND - 0.69	No	6	0	Runoff from rubber and chemical factories
2014	Hexachlorocyclopentadiene (ppb)	ND	0.24	ND - 0.24	No	50	50	Discharge from chemical factories
2021	Simazine (ppb)	ND	0.07	ND - 0.07	No	4	4	Runoff from herbicide used on row crops