

2021 DRINKING WATER QUALITY REPORT



CONSUMER CONFIDENCE REPORT

PWS ID: TX1460146

RIVERWOOD ESTATES

Our Drinking Water Meets All Federal (EPA) Drinking Water Requirements

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. The U.S. Environmental Protection Agency (EPA) requires ongoing tests of all public water systems, and the results are provided on the following pages. We hope that by this information helps you to become more aware of what's in your drinking water in Riverwood Estates.

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 include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water 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 storm water 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 storm water runoff, and septic systems.

Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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. In order to ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Special Notice for Infants, Elderly and those with Special Health Circumstances



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 provider. 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.

En Español

Este reporte incluye información importante sobre el agua potable. Para asistencia en español, favor de llamar por telefono al 281-355-1312.

Public Participation Opportunities

You may mail comment to:
H2O Innovation
Attn: Riverwood Estates
P.O. Box 691008
Houston, TX 77269

Where do we get our drinking water?

The source of drinking water used by Riverwood Estates is Ground Water. It comes from the Chicot Aquifer. 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 Riverwood Estates at: 281-335-1312.

All Drinking Water May Contain Contaminants

When drinking water meets federal standards there may not be any health benefits to purchasing bottled water or point of use devices. Drinking water, including bottled water, may reasonably be expected to contain at least small amount 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 found by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791).

About this report

This report lists all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPS requires water systems to test for up to 97 contaminants. Most sampling is conducted at each source water entry point into the system. The actual water received by a consumer may be a blend from different sources, depending on location.

Drinking Water Abbreviations and Definitions

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

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

MFL: million fibers per liter (a measure of asbestos)

N/A: not applicable

NTU: nephelometric turbidity units (a measure of turbidity)

pCi/L: picocuries per liter (a measure of radioactivity)

ppm: parts per million, or milligrams per liter (mg/L), or one ounce in 7,350 gallons of water

ppb: parts per billion, or micrograms per liter, or one ounce in 7,350,000 gallons of water

ppt: parts per trillion, or nanograms per liter (ng/L)

ppq: parts per quadrillion, or pictograms per liter (pg/L)

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.

Maximum Contaminant Level Goal or MCLG:

The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level or MCL:

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

Maximum residual disinfectant level goal or MRDLG:

There is a level of drinking water disinfectant below which there is no known or expected risk to health. MRDLs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Maximum residual disinfectant level or 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.

Mrem/year: millirems per year (a measure of radiation absorbed by the body)

Treatment Technique or TT:

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

Regulated Contaminants

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2021	31.9	1.5 – 31.9	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2021	133	42.6 – 133	No goal for the total	80	ppb	Y	By-product of drinking water disinfection.

* The value in the Highest Level or Average Detected column is the highest of all TTHM/HAA5 sample results collected at a location over a year.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2019	1.5	1.5 – 1.5	0	5	pCi/L	N	Erosion of natural deposits.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2021	7	7 – 7	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2021	0.0701	0.0701 - 0.0701	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2021	2.29	2.29 – 2.29	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum 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.

*This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by your community water Riverwood Estates has a fluoride concentration of **2.0 mg/L.**

*Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.'

'For more information, please call **H2O Innovation of Riverwood Estates at 281-355-1312.** Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP.'

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2020	1.3	1.3	0.077	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2020	0	15	1.2	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Additional Health Information for Lead

All water systems are required by EPA to report the following language: *"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>."*

Disinfectant Residuals

Year	Contaminant Unit of Measure	Average Level Detected	Range of Level Detected	MRDL	MRDLG	Violation	Likely Source of Contamination
2021	Free Chlorine	1.51	0.22 – 3.48	4	4	N	Water additive used to control microbes.

Violations Table

Total Trihalomethanes (TTHM)			
Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, LRAA	10/01/2021	12/31/2021	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.

If you would like to talk to a district representative about your Water Quality Report, please call Riverwood Estates at 281 355 1312. For information from the U.S. Environmental Agency, you may call the EPA's Hotline at 1-800-426-4791.

Total Trihalomethane (TTHM) MCL, LRAA:

The Texas Commission on Environmental Quality (TCEQ) has notified Riverwood Estates, TX1460146, that the drinking water being supplied to customers has exceeded the Maximum Contaminant Level (MCL) for TOTAL TRIHALOMETHANE (TTHM). The U.S. Environmental Protection Agency (USEPA) has established the MCL for TTHM at 0.080mg/L, based on a locational running annual average, and has determined that it is a health concern at levels above the MCL. Analysis of drinking water in your community for TTHM during the 4th Quarter 2021 reporting period, indicates a level of 0.097 mg/L for DBP2-02 and 0.080 mg/L for DBP2-01.

**** Trihalomethanes are a group of volatile organic compounds that are formed when chlorine, added to the water during treatment process for disinfection, reacts with naturally occurring organic matter in the water.**

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

You do not need to use an alternative water supply. However, if you have health concerns, you may want to talk to your doctor to get more information about how this may affect you.

We are working to correct the problem:

- 1) We have lowered the amount of chlorine being fed into the distribution system.
- 2) We have increased the number of distribution line flushing's to help clear the system.

We will continue to monitor the Maximum Contaminant Level and make further necessary modifications.

Please share this information with all people who drink this water, especially those who may not have received this notice directly (i.e., people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

We apologize for the inconvenience and understand your concerns. If you have any questions, please let us know.

Natalia Espitia
Compliance Manager
281.355.1312