

WESTADOR MUNICIPAL UTILITY DISTRICT

2021 Drinking Water Quality Report

The Texas Commission on Environmental Quality (TCEQ), has assessed our system and determined that our water meets all federal and state requirements for quality. The analysis was made by using the data in the attached tables. Your water meets federal standards set forth by the United States Environmental Protection Agency (USEPA), there may not be health based benefits to purchasing bottled water or a point to use devices.

En Español

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar a Natalia Espitia al teléfono 281-353-9809.

Where do we get our drinking water?

Our drinking water is obtained from groundwater 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 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 Natalia Espitia 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 USEPA's Safe Drinking Water Hotline 1-800-426-4791.
USEPA website: www.epa.gov/safewater

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 (FDA) 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 District's operator, H2o Innovation.

Public input concerning your water system may be made at regularly scheduled meetings on the fourth Wednesday of each month at 7:00 p.m. at 17101 Nanes Dr, Houston, Texas. 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 (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.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contamination.

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.

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Unregulated Contaminants*					
Year	Constituent	Average of All Sampling Points	Range of Detected Levels	Violation	Units of Measure
2020	Dichloroacetic Acid	8.65	6.6 - 10.9	N	ppb
2019	Monochloroacetic Acid	2.1	2.1 - 2.1	N	ppb
2020	Trichloroacetic Acid	1.58	1.2 - 2.1	N	ppb
2020	Bromochloroacetic Acid	1.53	1.2 - 1.8	N	ppb
2020	Chloroform	6.78	5.3 - 8.6	N	ppb
2020	Bromodichloromethane	1.4	1.0 - 1.8	N	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.

Organic Contaminants								
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Violation	Source of Constituent
2021	Total Trihalomethanes	12.3	9.2-12.3	80	0	ppb	N	By-product of drinking water disinfection.
2021	Total Haloacetic Acids	22.8	9.4-22.8	60	0	ppb	N	By-product of drinking water disinfection.

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

Radioactive Contaminants								
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Violation	Source of Constituent
2016	Beta Emitters	4.0	4.0 - 4.0	50	0	pCi/l	N	Decay of natural man-made deposits.

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Disinfectant Residual								
Year	Constituent	Highest Average	Range of Detected Levels	MCL	MCLG	Units of Measure	Violation	Source of Constituent
2021	Chlorine Disinfectant	3.21	0.53 - 4.0	4	4	ppm	N	Water additive used to control microbes.

Inorganic Contaminants								
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Violation	Source of Constituent
2020	Barium	0.216	0.216 - .0216	2	2	ppm	N	Erosion of natural deposits; discharge from drilling waste or metal refineries.
2020	Fluoride	0.56	0.56 - 0.56	4	4	ppm	N	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2021	Nitrate	0.21	0.21-0.21	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
2020	Cyanide	60	60 - 60	200	200	ppb	N	Discharge from plastic and fertilizer factories; discharge from steel/metal factories.
2020	Selenium	4.0	4.0 - 4.0	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
2020	Arsenic	2.7	2.7 - 2.7	10	0	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.

Lead and Copper								
Year	Constituent	The 90th Percentile	Number of Sites Exceeding Action Levels	Action Level	MCLG	Units of Measure	Violation	Source of Constituent
2021	Copper	0.0228	0	1.3	1.3	ppm	N	Erosion of natural deposits; Leaching from wood preservatives.
2021	Lead	5.77	0	15	0	ppb	N	Corrosion if household plumbing systems; Erosion of natural deposits

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>.

During 2021, Westador M.U.D. received surface water from the North Harris County Regional Water Authority. The following is the water quality information provided by the North Harris County Regional Water Authority:

Unregulated Contaminants**					
Year	Constituent	Average of All Sampling Points	Range of Detected Levels	Violation	Units of Measure
2021	Chloroform	17	17 - 17	N	ppb
2021	Bromochloroacetic Acid	1.86	1.86 - 1.86	N	ppb
2021	Dichloroacetic Acid	10	10.0 - 10.0	N	ppb
2021	Monochloroacetic Acid	5.13	5.13 - 5.13	N	ppb
2021	Trichloroacetic Acid	2.17	2.17 - 2.17	N	ppb
2021	Bromodichloromethane	2.4	2.4 - 2.4	N	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.

Inorganic Contaminants								
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Violation	Source of Constituent
2021	Barium	0.35	0.0396 - 0.35	2	2	ppm	N	Discharge of drilling wastes.
2021	Fluoride	0.37	0 - 0.37	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
2021	Nitrate	0.64	0 - 0.64	10	10	ppm	N	Erosion of natural deposits.

Organic Contaminants								
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Violation	Source of Constituent
2021	Atrazine	0.64	0 - 0.64	3	3	ppb	N	Runoff from herbicides used on row crops.

Organic Contaminants								
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Violation	Source of Constituent
2021	Total Trihalomethanes (TTHM)	48.2	48.2 - 48.2	80	n/a	ppb	N	By-product from drinking water disinfection.
2021	Haloacetic Acids (HAA5)	50.7	50.7 - 50.7	60	n/a	ppb	N	By-product from drinking water disinfection.

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

Turbidity***

Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	Monthly Limits	Units of Measure	Violation	Source of Constituent
2021	Turbidity	0.49	0.3 - 0.49	0.3	NTU	N	Soil runoff.

*Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

*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. NTU— Nephelometric Turbidity Units

The drinking water in your district exceeds all of the minimum water quality standards established by the USEPA.