

WATER QUALITY REPORT 2022

Este reporte incluye información importante sobre el aqua para tomar. Para asistencia en español, favor de llamar al teléfono 512-218-5555.

SAFE, HIGH-QUALITY DRINKING WATER, ROUND THE CLOCK ROUND ROCK

The City of Round Rock is committed to providing high-quality, dependable water to the community. Round Rock's water system is rated "superior" by the Texas Commission on Environmental Quality (TCEQ) – TCEQ's highest rating – and continues to meet or exceed all state and federal drinking water standards.

This Consumer Confidence Report provides information about our water system, including source water, levels of detected contaminants, compliance with drinking water rules, and water quality data from the most recent U.S. Environmental Protection Agency (EPA) required tests.

Where Your Water Comes From

Round Rock's water supply comes from surface water and groundwater sources. Surface water is primarily supplied by Lake Georgetown, and groundwater is served by the Edwards Aquifer.

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 land's surface or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material.

Water can pick up substances resulting from the presence of animals or human activity. Contaminants that may be present in source water before treatment include: inorganic contaminants, herbicides, pesticides, organic chemical contaminants, radioactive contaminants, and microbes.

Water Quality

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. For more on contaminants and potential health effects, call the EPA Safe Drinking Water Hotline at 800-426-4791.

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 the taste, odor, or color of drinking water, please contact the City at 512-341-3134.

EPA regulations limit the amounts of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Secondary Constituents

Secondary constituents, such as calcium, sodium, or iron, often found in drinking water, can cause taste, color, or odor problems. The State of Texas regulates these taste and odor constituents. These constituents are not necessarily causes for health concerns. Secondary constituents are not required to be reported but may affect the appearance or taste of your water.

Vulnerability to Drinking Water Contaminants

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 800-426-4791.

City of Round Rock

Website: roundrocktexas.gov/utilities Facebook: facebook.com/roundrock Utilities & Environmental Services: 512-218-5555 Water Quality Questions: 512-341-3134 Billing Questions: 512-218-5460

U.S. EPA Safe Drinking Water Hotline

800-426-4791 or visit

http://water.epa.gov/drink/hotline/index.cfm

Source Water Assessment

TCEQ completed an assessment of Round Rock's source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for our water system are based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, please contact the City at 512-341-3134. Source water assessment information is available on Texas Drinking Water Watch at https://dww2.tceq.texas.gov/DWW/.

Water Loss

In the water loss audit submitted to the Texas Water Development Board for the time period of January - December 2022, our system lost an estimated 4.25% of the total water produced. If you have questions about the water loss audit, please call 512-341-3134.

Water Hardness

Many consumers believe that their water must be softened to prevent damage to plumbing and fixtures. This is untrue. The average water hardness in Round Rock is 241 mg/L or approximately 14.08 grains per gallon. While this level of hardness may cause minor aesthetic problems such as water spots and dry skin, it does not cause damage to plumbing.

The City routinely performs laboratory tests to measure the stability of the drinking water. Stability refers to whether the water is aggressive or depositional. Test results indicate that Round Rock's drinking water, as delivered to your home, is stable.

Your Participation is Welcome

The Round Rock City Council meets each second and fourth Thursday at 6 p.m. in City Hall Council Chambers, 221 E. Main St. Council meetings are open to the public with opportunities for residents to comment on any city-related issue, visit roundrocktexas.gov/council for details.

For questions regarding this report, please call 512-341-3134 or email wkinder@roundrocktexas.gov.

Watershed Protection

Stormwater runoff is rain that does not absorb into the ground. It carries litter, pesticides, fertilizers, bacteria from pet waste, and other harmful pollutants into nearby creeks, streams, and other waterways.

Stormwater pollution can lead to contamination of these vital water sources, increase the cost of treating drinking water, and adversely impact the environment.

Please help keep our waterways clean by picking up after your pet and putting waste in its place – never down storm drains. Learn more at roundrocktexas.gov/stormwater.

"Can It, Don't Drain It"

Grease may go in as a liquid, but as it travels through drains, it cools and hardens, forming a sticky, pipe-clogging wax in your pipes. When this happens, the wastewater (sewer) system backs up, and sewage overflows into your home, yard, and nearby creeks. Avoid this costly disaster by pouring grease into a can and toss in the trash.

Learn more facts and get your **FREE Cease the Grease kit** at roundrocktexas.gov/ceasethegrease.

Summer Watering 2023

As we enter Summer 2023, it's important to note that Stage I Water Restrictions are still in effect. Although we have had a few significant rain events, our current lake levels, combined with the increased outdoor watering inherent with summer, Stage I Water Restrictions remain in effect.

The City's Drought Contingency Plan has three Drought Stages. In Stage I, watering with a sprinkler, drip/soaker hose, or irrigation system is allowed twice a week on your designated days and before 10:00 a.m. or after 7:00 p.m.

Most of the water used in Round Rock happens during the summer months for outdoor use. Evaporation and overwatering are common ways that water is wasted outside. Try these outdoor watering tips to "use less and get more."

- Only water if needed. Landscapes can and should tolerate some stress; this helps build up drought tolerance.
- Water the lawn in shorter, more frequent sessions rather than one long session to avoid runoff.
- Don't cut grass too short. Longer grass holds in moisture and absorbs more sunlight, making it stronger and thicker.
- Make sure your sprinkler is only watering your yard, not the street, sidewalk, or house.
- Fix leaks in and around your home. Small leaks can lead to big problems if not fixed.
- Upgrade and save! The City's water conservation rebates make it easier to upgrade your home to be more water-efficient – rebates on irrigation system upgrades, clothes washers, and more at roundrocktexas.gov/rebates.

Saving water is essential during drought conditions but also beneficial year-round. Water conservation during normal conditions helps restore lake levels to pre-drought levels and minimize the effects of future droughts. Start by making small changes to save water and save money, too! Learn more at roundrocktexas.gov/conservation.

2022 Drinking Water Quality Results

The following table lists the regulated and monitored chemical constituents found in our drinking water. The EPA requires water systems to test for up to 97 federally regulated primary constituents.

Inorg	Inorganic Constituents													
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation	Likely Source of Contamination					
2022	Barium	0.0493	0.0372	0.0433	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposit					
2022	Cyanide	90	90	90	200	200	ppb	N	Discharge from plastic, fertilizer and steel/metal factories					
2022	Fluoride	0.25	0.25	0.25	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories					
2022	Nitrate (measured as Nitrogen)	0.91	0.09	0.38	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits					

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should seek advice from your health care provider.

Rad	Radioactive Constituents												
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation	Likely Source of Contamination				
2017	Combined Radium	1	1	1	5	0	pCi/L	N	Erosion of natural deposits				

Lead	Lead and Copper in Distribution System													
Date	Constituent	90 th Percentile	Sites Exceeding Action Level	Action Level	MCLG	Units	Violation	Likely Source of Contamination						
7/2020	Lead	3.4	2 of 100	15	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits						
7/2020	Copper	0.25	0 of 100	1.3	1.3	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems						

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. We are responsible for providing high-quality drinking water, but we 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.

Disin	fectant Residual								
Year	Constituent	High	Low	Average	MRDL	MCLG	Units	Violation	Likely Source of Contamination
2022	Chloramine	2.56	1.86	2.24	4	4	ppm	Ν	Water additive used to control microbes

Disinf	Disinfectant By-Products												
Year	Constituent	High	Low	Max LRAA	MCL	MCLG	Units	Violation	Likely Source of Contamination				
2022	Total Trihalomethanes	57.5	15.2	50.6	80	NA	ppb	N	By-product of drinking water disinfection				
2022	Haloacetic Acids	12.3	6.3	10.3	60	NA	ppb	N	By-product of drinking water disinfection				

Total	Total Organic Carbon (TOC)												
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Likely Source of Contamination					
2022	TOC (Raw Water)	3.16	2.67	2.93	П	NA	ppm	Naturally occurring organic material. There is no health effect directly associated with TOC. Removal through					
2022	TOC (Treated Water)	2.64	2.18	2.45	TT	NA	ppm	treatment averaged 16.40%.					

Turbio	Turbidity												
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation	Likely Source of Contamination				
2022	Turbidity	0.13	0.03	0.052	0.3	NA	NTU	N	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.

Unre	Unregulated Contaminants														
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation	Likely Source of Contamination						
2022	Dibromochloromethane	25.1	3.8	19.15	None Established		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 their occurrence in drinking water						
2022	Chloroform	4.6	<1	3.42	None Es	None Established		N							
2022	Bromoform	13.4	1.8	9.27	None Established		ppb	N							
2022	Bromodichloromethane	14.5	2.0	10.83	None Es	None Established		N	and if future regulation is warranted.						

Colif	Coliform Bacteria											
Year	Constituent	Highest % of Positive Samples	MCL	Units	Violation	Likely Source of Contamination						
2022	Total Coliform	0.93%	5% of monthly samples are positive	Presence	Z	Naturally present in the environment						
2022	Fecal Coliform	0	Routine or repeat sample is coliform	Presence	И	Naturally present in the environment						

Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are hardier than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

Fecal coliform bacteria and, in particular, <u>E. coli</u>, are members of the coliform bacteria group originating in the intestinal tract of warm-blooded animals and are passed into the environment through feces. The presence of fecal coliform bacteria (<u>E. coli</u>) in drinking water may indicate recent contamination of the drinking water with fecal material.

Seco	ndary and Othe	r Const	ituents	Not Re	gulated			
Year	Constituent	High	Low	Average	Secondary Limit	Units	Violation	Likely Source of Contamination
2022	Aluminum	0.2	<0.02	0.12	0.05-0.2	ppm	N	Naturally occurring element
2022	Calcium	77.4	38.3	57.9	NA	ppm	N	Naturally occurring element
2022	Chloride	62	62	62	300	ppm	N	Naturally occurring element
2022	рН	7.93	7.13	7.53	> 7.0	units	N	Measure of corrosivity of water
2022	Sodium	35.0	31.2	33.1	NA	ppm	N	Naturally occurring element
2022	Sulfate	29	29	29	300	ppm	N	Naturally occurring material
2022	Hardness	320	174	241	NA	ppm	N	Naturally occurring calcium and magnesium
2022	Total Alkalinity	294	140	212	NA	ppm	N	Naturally soluble mineral salts
2022	Total Dissolved Solids	367	243	300	1000	ppm	N	Total dissolved mineral constituents in water

Definitions

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

Level 1 Assessment – A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria were found.

Level 2 Assessment – A very detailed study of the water system to identify potential problems and determine (if possible) why an Escherichia coli (E. coli) MCL violation has occurred and/or why total coliform bacteria were found on multiple occasions.

Maximum Contaminant Level (MCL) – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs 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, MCLGs allow for a margin of safety.

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.

Treatment Technique (\Pi) – A required process intended to reduce the level of a contaminant in drinking water.

Abbreviations

LRAA - locational running annual average

MPN – most probable number per 100 milliliters

NA - not applicable

NTU – nephelometric turbidity units (a measure of turbidity)

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

ppb – parts per billion, or micrograms per liter (ug/L)

ppm – parts per million, or milligrams per liter (mg/L)

ppq – parts per quadrillion, or picograms per liter (pg/L)

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