

# City of Rose City

## 2022 Drinking Water Quality Report

DEAR CUSTOMER:

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 sources of drinking water (both tap water and bottled water) generally 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 the source water include:

- 1) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and 2) 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, 3) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses, 4) 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, 5) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which 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, Inframark.

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).

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>.

The source of water used by City of Rose City is surface water from the Sabine River Authority Terminal Reservoir

No Source Water Assessment for your drinking water source(s) has been conducted by the TCEQ for your water system. The report describes the susceptibility and the types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information in this assessment allows us to focus our source water protection strategies.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following:

<http://www.tceq.texas.gov/swa/view>

Further details about sources and source water assessments are available in Drinking Water Watch at the following URL: <http://dwmw2.tceq.texas.gov/DWMW/>

Many constituents (such as calcium, sodium, or iron) which are often found in drinking water can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern.

Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water. The pages that follow 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.

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices.

Public input concerning the water system may be made at regularly scheduled meetings, generally held the 2nd Thursday of each month at 6:00 PM at City Hall, 370 S. Rose City Drive, Vidor, TX 77662. You may also contact Dora Tarbox, City Secretary, at 409-769-8809 with any concerns or questions you may have regarding this report.

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en español, favor de llamar al tel. (281) 579-4507.

### Definitions & Abbreviations:

**Action Level (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.

**Level 1 assessment:** 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:** 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 (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 risk to health. MCLGs allow for a margin of safety.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of 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 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.

**MFL:** Million Fibers per Liter (a measure of asbestos).

**MCM:** millirem per year (a measure of radiation absorbed by the body)

**N/A:** Not applicable.

**NTU:** Nephelometric Turbidity Units (a measure of turbidity).

**PCU:** Picocuries per liter (a measure of radioactivity).

**ppb:** micrograms per liter or parts per billion.

**ppm:** milligrams per liter or parts per million

**ppb:** Parts per quadrillion, or picograms per liter (pg/L).

**ppb:** Parts per trillion, or nanograms per liter (ng/L).

**Treatment Technique or TT:** A required process intended to reduce the level of a contaminant in drinking water.



Substance	Unit of Measure	Year	MCL	Average Level Detected	Min - Max Level Detected	MCLG	In Compliance	Typical Sources
<b>Radioactive Contaminants (Regulated at the Water Plant)</b>								
Combined Radium	pCi/L	2018	5	1.5	1.5 - 1.5	0	Yes	Erosion of natural deposits.
<b>Synthetic Organic Contaminants Including Pesticides and Herbicides</b>								
Dalapon	ppb	2022	200	1.67	0 - 3.1	200	Yes	Runoff from herbicide used on rights of way
Hexachlorocyclopentadiene	ppb	2022	50	0.31	0.31 - 0.31	50	Yes	Discharge from chemical factories.
<b>Unregulated Contaminants</b>								
Bromodichloromethane	ppb	2022	N/A	38.0	38 - 38	N/A	Yes	By-product of drinking water disinfection.
Bromoform	ppb	2022	N/A	1.2	1.2 - 1.2	N/A	Yes	By-product of drinking water disinfection.
Chloroform	ppb	2022	N/A	183.0	183 - 183	N/A	Yes	By-product of drinking water disinfection.
Dibromochloromethane	ppb	2022	N/A	12.0	12 - 12	N/A	Yes	By-product of drinking water disinfection.
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.								
<b>Inorganic Contaminants (Regulated at the Water Plant)</b>								
Barium	ppm	2022	2	0.03	0.03 - 0.03	2	Yes	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.

**Turbidity**  
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.

	Level Detected	Limit (Treatment Technique)	In Compliance	Likely Source of Contamination				
Highest single measurement	2.16 NTU	1 NTU	No	Soil runoff.				
Lowest monthly % meeting limit	45%	0.3 NTU	No	Soil runoff.				
Disinfectant Byproducts								
Halacetic Acids (HAA5)	ppb	2022	60	71.71	18.7 - 158	0	No	By-product of drinking water disinfection.
Total Trihalomethanes	ppb	2022	80	253.71	133 - 404	0	No	By-product of drinking water disinfection.

**Health Effects:** 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.

Substance	Unit of Measure	Year	90th % Value	EPA Action Level	Results above Action Level	MCLG	In Compliance	Typical Sources
<b>Lead and Copper (Regulated at Customers Tap)</b>								
Copper	ppm	2020	0	1.3	0	1.3	Yes	Corrosion of household plumbing systems, erosion of natural deposits; leaching from wood preservatives.
Lead	ppb	2020	0	15	0	0	Yes	Corrosion of household plumbing systems; erosion of natural deposits.

Substance	Year	MCL	Highest No. of Positive Samples	MCLG	In Compliance	Typical Sources
<b>Microbiological Contaminants</b>						
Fecal Coliform Bacteria and E. Coli	2022	0	0	0	Yes	Human and animal fecal waste
Total Coliform Bacteria	2022	1	1	0	Yes	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 more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.



Violations	
Violation Type	Duration
Consumer Confidence Rule	07/01/2021 to 07/06/2022
<b>Health Effects</b>	
The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the systems.	
<b>Explanation</b>	
We failed to provide to you, our drinking water customers, an annual report that informs you about the quality of our drinking water and characterizes the risks from exposure to contaminants detected in our drinking water.	
<b>Steps to Correct</b>	
We have reviewed our process for distributing the annual report and implemented checks to prevent this from happening in the future.	
Violation Type	Duration
FAILURE SUBMIT OEL REPORT FOR HAA5	04/28/2022 TO 10/06/2022
<b>Health Effects</b>	
Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.	
<b>Explanation</b>	
We failed to submit our operational evaluation level (OEL) report to our regulator. The report is needed to determine best treatment practices necessary to minimize possible future exceedences of HAA5.	
<b>Steps to Correct</b>	
Our water system is working with the Operations team to help reduce the HAA5 levels.	
Violation Type	Duration
FAILURE SUBMIT OEL REPORT FOR TTHM	04/28/2022 to 10/06/2022
<b>Health Effects</b>	
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.	
<b>Explanation</b>	
We failed to submit our operational evaluation level (OEL) report to our regulator. The report is needed to determine best treatment practices necessary to minimize possible future exceedences of TTHM.	
<b>Steps to Correct</b>	
This violation has been resolved and the system is back in compliance	
Violation Type	Duration



Haloacetic Acids (HAA5)		04/01/2022 TO 12/31/2022
<b>Health Effects</b>		
Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.		
<b>Explanation</b>		
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.		
<b>Steps to Correct</b>		
Our water system is working with the Operations team to help reduce the HAA5 levels.		
<b>Violation Type</b>	<b>Duration</b>	
Monitoring, Routine (IESWTRLT1), Major	01/01/2022 TO 12/31/2022	
<b>Health Effects</b>		
The Interim Enhances Surface Water Treatment Rule improves control of microbial contaminants, particularly Cryptosporidium, in systems using surface water, or ground water under the direct influence of surface water. The rule builds upon the treatment technique requirements of the Surface Water Treatment Rule.		
<b>Explanation</b>		
We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.		
<b>Steps to Correct</b>		
The process for this monitoring has been reviewed and corrective actions have been taken to prevent this from happening in the future.		
<b>Violation Type</b>	<b>Duration</b>	
Monitoring, RTN/RPT Major (SWTR-FILTER)	01/01/2022 to 12/31/2022	
<b>Health Effects</b>		
The Surface Water Treatment Rule seeks to prevent waterborne diseases caused by viruses, Legionella, and Giardia lamblia. The rule requires that water systems filter and disinfect water from surface water sources to reduce the occurrence of unsafe levels of these microbes.		
<b>Explanation</b>		
We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.		
<b>Steps to Correct</b>		
The process for this sampling has been reviewed and corrective actions have been taken		
<b>Violation Type</b>	<b>Duration</b>	
MONTHLY COMB FLTR EFFLUENT (IESWTRLT1)	01/01/2022 to 03/31/2022	
<b>Health Effects</b>		



The Interim Enhanced Surface Water Treatment Rule improves control of microbial contaminants, particularly *Cryptosporidium*, in systems using surface water, or ground water under the direct influence of surface water. The rule builds upon the treatment technique requirements of the Surface Water Treatment Rule.

**Explanation**

Turbidity levels, though relatively low, exceeded a standard for the month indicated. Turbidity (cloudiness) levels are used to measure effective filtration of drinking water.

**Steps to Correct**

The process for this monitoring has been reviewed and corrective actions have been taken to prevent this from happening in the future.

**Violation Type**

Public Notification Rule

**Duration**

04/28/2020 to 10/12/2022

**Health Effects**

The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).

**Explanation**

We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.

**Steps to Correct**

The process for distributing public notices has been reviewed and corrective action, as well as a proper management techniques, have been put in place to prevent this from happening in the future.

**Violation Type**

**Duration**

Revised Total Coliform Rule (RTCRR), Level 1 Assess, Multiple TC POS

09/11/2022 to 2022

**Health Effects**

*E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised immune systems.

**Explanation**

We failed to properly complete a Level 1 Assessment in our water system.

**Steps to Correct**

Our system is working with TCEQ to resolve this violation.

**Violation Type**

**Duration**

Single Comb Filtr Effluent (IESWTRLT1)

01/01/2022 to 01/31/2022

**Health Effects**

The Interim Enhanced Surface Water Treatment Rule improved control of microbial contaminants, particularly *Cryptosporidium*, in systems using surface water, or ground water under the direct influence of surface water. The rule builds upon the treatment technique requirements of the Surface Water Treatment Rule.



<b>Explanation</b>	
Turbidity levels, though relatively low, exceeded a standard for the month indicated. Turbidity (cloudiness) levels are used to measure effective filtration of drinking water.	
<b>Steps to Correct</b>	
The process for this monitoring has been reviewed and corrective actions have been taken to prevent this from happening in the future.	
<b>Violation Type</b>	<b>Duration</b>
Total Coliform	01/01/2022 to 12/31/2022
<b>Health Effects</b>	
Total Coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While note disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.	
<b>Explanation</b>	
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.	
<b>Steps to Correct</b>	
<b>Violation Type</b>	<b>Duration</b>
Total Organic Carbon	01/01/2022 to 12/31/2022
<b>Health Effects</b>	
Total organic carbon has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include Trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of l	
<b>Explanation</b>	
We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.	
<b>Steps to Correct</b>	
The process for this monitoring has been reviewed and corrective actions have been taken to prevent this from happening in the future.	
<b>Violation Type</b>	<b>Duration</b>
Total Trihalomethanes (TTHM) MCL, LRAA	01/01/2022 to 12/31/2022
<b>Health Effects</b>	
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.	
<b>Explanation</b>	

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.

**Steps to Correct**

Our water system is working with the Operations team to help reduce the HAA5 levels.