# 2022 Consumer Confidence Report for Public Water System RED OAK TERRACE

This is your water quality report for January 1 to December 31, 2022

For more information regarding this report contact:

RED OAK TERRACE provides ground water from Chicote Aquifer located in Har ris

County

Name Alison Harding

Phone 281-356-5060

 $Este \ reporte \ incluye \ informaci 6n \ importante \ sobre \ el \ agua \ para \ tomar \ . \ Para \ asistencia \ en \ espaii \ ol, \ favor \ de$ 

llamar al telefono 281-356-5060 .

#### **Definitions and Abbreviations**

Definitions and Abbreviations The following tables contain scientific terms and measures, some of which may require explanation.

Action Level: 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: 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 svst em.

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 multiole occasions.

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 Contaminant Level Goal or M CLG: The level of a conta minant in drinking water below which there is no known or expected risk to health . MCLGs allow for a margin of saf ety.

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.

Maximum residual disinfectant level goal or 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

MFL million fibers per liter (a measure of asbestos)

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

na: not applicable .

NTU nephelometric turbidity units (a measure of turbidity)

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

#### **Definitions and Abbreviations**

ppb: micrograms per liter or parts per billion

ppm: milligrams per liter or parts per million

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

ppt 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 .

# Information about your Drinking Water

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.

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

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.

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 system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Crypt osp oridium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons 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 (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young chil dren. 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 test ed. 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 htt p://www.epa.gov/safewater/lead.

#### Information about Source Water

RED OAK TERRACE purchases water from CITY OF TOMBALL. CITY OF TOMBALL provides purchase ground water from Chicote Aquifer located in Harris County.

TCEQ completed an assessment of your source water, and results indicate that our sources have a low susceptibility to 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 Alison Harding 281-356 -5060.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	10/30/2020	1.3	1.3	0.185	0	ppm		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing syste ms.

# 2022 Water Quality Test Results

Disinfection By-Products Collection Date Highest Level Range of Individual MCLG MCL Units Violation Likely Source of Contamination  Detected Samples	Disinfection By-Products	Collection Date	"		MCLG	MCL	Units	Violation	Likely Source of Contamination
--	--------------------------	-----------------	---	--	------	-----	-------	-----------	--------------------------------

Haloacetic Acids (HAAS)	2022	1	1- 1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2022	9.7	9.7-9.7	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

### **Disinfectant Residual**

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine Free	2022	2.10	1.4 - 2.6	4	4	ppm	у	Water additive used to control microbes .

### **Violations**

## Chlorine

Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

Violation Type	Violation Begin	Violation End	Violation Explanation
Disinfectant Level Quarterly Operating Report fDLQOR\.	01/01/2022	03/31/2022	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the auality of our drinkine water durine the oeriad indicate d.

# **Public Notification Rule**

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

Violation Type	Violation Begin	Violation End	Violation Explanation
PUBLIC NOTICE RULE LINKED TO VIOLATION	07/04/2021	07/07/2022	We failed to adequately notify you, our drinking water consumers, about a violation af the drinking water regulations.

# 2022 Consumer Confidence Report for Public Water System CITY OF TOMBALL

This is your w.iter quality report for January 1 to December 31, 2022

CITY OF TOMBALL provides ground water from Evangeline and Chicot Aquifers located in The City of Tomball.

MFL

For more information regarding this report contact :

Name: City of Tomball

Phone: 281-290-1400

Este reporte incluye información import.ante sabre el agua para tomar. Para asistencia en espa iio l, favor de llama, al telefono (281)290-1400

### **Definitions and Abbreviations**

**Definitions and Abbreviations** The following tables contain scientific terms and measures, some of which may require explanation.

Action leve 1: The concentration of a contaminant whic h, if exceeded, triggers treatment or other requirements which a water system must follow.

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

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 und in our Level 1 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 Level 2Assessment:

and/or why total coliform bacteria have been found in our water system on multicle occasions.

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 Contaminant Level or MCL:

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to healt h. MCLGs allow for a margin of safety.

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

Maximum residual disinfectant level goal or 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 dis in fecta nts to control microbial contaminants

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

nephelometric turbidity units (a measure of turbidity) NTII pCi/L picocuries per liter (a measure of radioactivity)

03/29/2023 1XI010026\_2022\_2023-03-29\_15-35-41.DOC of 6

#### **Definitions and Abbreviations**

 ppb:
 micrograms per liter or parts per billion

 ppm:
 milligrams per liter or parts per million

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

 ppt
 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.

#### Information about your Drinking Water

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.

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

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 .

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 system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosp oridium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons 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 (800-426-4791).

03/29/2023 TX1010026\_2022\_2023-03-29\_15-35-41.DOC 3 of 6

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.

#### Information about Source Water

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 [insert water system contact] [Insert phone number]

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	07/31/2020	1.3	1.3	0.448	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing
Lead	07/31/2020	0	15	0.62	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

# 2022 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAAS)	2022	1	0 - 1.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

<sup>•</sup>The value m the Highest level or Average Detected column 1s the highest average of all HAAS sample results collected at a location over a year

Total Trihalomethanes (TTHM)	2022	2.5-6.3	Nogoal for the	80	ppb	N	By product of drinkingwater disinfection.
,			total		**		

4The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Ind ividual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2022	2.9	2.9 - 2.9	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2022	0.168	0.168 - 0.168	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	03/04/2020	0.75	0.62 - 0.75	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teet h; Discharge from fertilizer and -1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Nitrate (measured as Nitrogen)	2022	0.19	0-0.19	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural depos its .
Selenium	2022	8.4	8.4-8.4	SO	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	03/04/2020	1.5	1.5-1.S	0	5	pCi/L	N	Erosion of natural depos its .

# Disinfectant Residual

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of <b>Measure</b>	Violation (Y/N)	Source In Drinking Water
Chlorine free	2022	2.10	1.4 - 2.6	4	4	ppm	N	Water additive used to control microbes.

03/29/2023 - TX1010026\_2022\_2023-03-29\_15-35-41.DOC 5 of 6