## 2022 Consumer Confidence Report for Public Water System BELLE OAKS WATER

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

For more information regarding this report contact:

BELLE OAKS WATER - The Coves provides surface water from West

Name T&W WATER SERVICE dba BLUE TOPAZ UTILITIES

Jefferson County MWD located in Jefferson County

Phone 936-756-7400

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en

español, favor de llamar al telefono 936-756-7400

### **Definitions and Abbreviations**

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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

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

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

Maximum Contaminant Level Goal or 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 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

Maximum residual disinfectant level goal or

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

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.

concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office. 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

elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791). You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some

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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

BELLE OAKS WATER purchases water from WEST JEFFERSON COUNTY MWD, WEST JEFFERSON COUNTY MWD provides purchase surface water Lower Neches River Valley Authority (LNVA) located in Jefferson County.

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.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2022	1.3	1.3	0.0697	0	ppm		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

## **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
Chlorite	2022	1	0-1	0.8	1	ppm	N	By-product of drinking water disinfection.
Haloacetic Acids (HAA5)	2022	34	17.3 - 28.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

<sup>\*</sup>The value in the Highest Level or Average Detected column is the highest average of all HAAS sample results collected at a location over a year

Total Trihalomethanes (TTHM)	2022	59	34.9 - 47.8	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
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<sup>\*</sup>The 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 Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2022	0.0442	0.0442 - 0.0442	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2022	120	120 - 120	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Nitrate [measured as Nitrogen]	2022	0.08	0.08 - 0.08	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2022	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion of natural deposits.

### **Turbidity**

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	Level Detected	Limit (Treatment	Violation	Likely Source of Contamination
		Technique)		

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Highest single measurement	0.38 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	99%	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.

### **Total Organic Carbon**

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

## **Violations**

Public Notification Rule	Public Notification Rule										
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).											
Violation Type	Violation Begin	Violation End	Violation Explanation								
PUBLIC NOTICE RULE LINKED TO	11/19/2022	12/20/2022	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water								
VIOLATION			regulations.								

Revised Total Coliform Rule (RTCR)										
The Revised Total Coliform Rule (RTCR) seeks to prevent waterborne diseases caused by E. coli. 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,										
Violation Type	Violation Begin	Violation End	Violation Explanation							
MONITORING, ROUTINE, MINOR (RTCR)	07/01/2022	07/31/2022	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.							

# 2022 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual	MCLG	MCL	Units	Violation	Likely Source of Contamination
		Detected	i ilawada			<u> </u>	1	
Haloacetic Acids (HAA5)	2022	31	30.9 - 30.9	No goal for the	60	ppb	N	By-product of drinking water disinfection.
*The value in the Highest Le	vel or Average Dete	ected column is the	highest average of	all HAA5 sample r	esults collected a	t a location ov	er a year	
Total Trihalomethanes	2022	41	40.8 - 40.8	No goal for the	80	ppb	N	By-product of drinking water disinfection.

<sup>\*</sup>The 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 Individual	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate [measured as Nitrogen]	2022	0.12	0 - 0.12	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

### **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
Chloramine	2022	3.08	1.50 – 3.8	4	4	ppm	N	Water additive used to control microbes.

## **Violations**

Lead and Copper Rule						
The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.						
Violation Type	Violation Begin	Violation End	Violation Explanation			
INITIAL TAP SAMPLING (LCR)	07/01/2021	06/28/2022	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.			

## **Violations**

Public Notification Rule						
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).						
Violation Type	Violation Begin	Violation End	Violation Explanation			
PUBLIC NOTICE RULE LINKED TO VIOLATION	09/02/2022	12/01/2022	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.			