

**SHADY BROOK ACRES
PWS ID: TX1700031
Provides ground water from the Gulf Coast Aquifer located in
MONTGOMERY COUNTY**

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



2022 CONSUMER CONFIDENCE REPORT

**For information regarding this report contact:
Undine Texas, LLC.
(713) 554-1417**

**Este reporte incluye informacion
importante sobre el agua para tomar. Para asistencia en español, favor de
llamar al telefono
(713) 554-1417**

2022 Consumer Confidence Report for Public Water System SHADY BROOK ACRES

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

SHADY BROOK ACRES provides ground water from Gulf Coast Aquifer located in Montgomery County.

For more information regarding this report contact:

Name _____ **Undine LLC** _____

Phone _____ **713-574-5953** _____

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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 is 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 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.

Maximum Contaminant Level or MCL:

The highest level of 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 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 disinfectant is 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 number 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 *Cryptosporidium*, 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 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 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 **Undine LLC 713-574-5953**.

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	0.0451	0	ppm	Y	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2022	0	15	2.2	0	ppb	Y	Corrosion of household plumbing systems; Erosion of natural deposits.

2022 Water Quality Test Results

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2022	2.7	2.7 - 2.7	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.

Barium	2022	0.281	0.281 - 0.281	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2022	0.12	0.12 - 0.12	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen]	2022	0.14	0.14 - 0.14	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2022	7.8	7.8 - 7.8	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

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
Free Chlorine	2022	1.54	1.20-2.30	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
OCCT/SOWT RECOMMENDATION/STUDY (LCR)	03/31/2022	08/12/2022	We failed to propose treatment to our regulator in response to results that indicate our water needs treatment to reduce lead and/or copper levels.
OCCT/SOWT RECOMMENDATION/STUDY (LCR)	04/01/2022	08/12/2022	We failed to propose treatment to our regulator in response to results that indicate our water needs treatment to reduce lead and/or copper levels.
OCCT/SOWT RECOMMENDATION/STUDY (LCR)	10/01/2022	02/17/2023	We failed to propose treatment to our regulator in response to results that indicate our water needs treatment to reduce lead and/or copper levels.

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	12/04/2022	2022	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.

**LEAD & COPPER RULE
CORROSION CONTROL
MANDATORY LANGUAGE - TIER II**

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

SHADY BROOK ACRES Water Contains High Levels of Lead and/or Copper

The Texas Commission on Environmental Quality (TCEQ) sets minimum water quality standards for public drinking water. Our water system recently violated a drinking water requirement. Even though this is not an emergency, as our customers, you have a right to know what happened, what you should do, and what we did (are doing) to correct this situation.

The list below has the corrosion control treatment actions which we did not complete, or properly complete, within the required time allowed by drinking water regulations.

- Failed to perform corrosion control studies to determine whether treatment is necessary to reduce the corrosivity of the water.

What should I do?

Listed below are some steps you can take to reduce your exposure to lead and/or copper:

- Call us at the number below to find out how to get your water tested for lead and copper.
- Find out whether your pipes contain lead, lead solder, or copper.
- Run your water for 15-30 seconds or until it becomes cold before using it for drinking or cooking. This flushes any standing lead and copper from the pipes.
- Don't cook with or drink water from the hot water tap; lead and copper dissolves more easily into hot water.
- **Do not boil your water to remove lead and copper.** Excessive boiling water makes the lead and copper more concentrated – the lead and copper remains when the water evaporates.

What does this mean?

This is not an emergency. If it had been, you would have been notified **within 24 hours**. Typically, lead and copper enters water supplies by leaching from lead, copper or brass pipes and plumbing components. New lead pipes and plumbing components containing lead are no longer allowed for this reason. **However**, many older homes may contain lead pipes. Your water is more likely to contain high lead levels if water pipes in/or leading to your home are made of lead or contain lead solder.

*Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure
Children and adults who drink water containing copper in excess could experience stomach and intestinal distress as well as liver and/or kidney damage.*

Copper Health Effects

Short term exposure: Gastrointestinal distress, Long term exposure: Liver or kidney damage, People with Wilson's Disease should consult their personal doctor if the amount of copper in their water exceeds the action level

What is being done?

Undine will complete the necessary steps required with a corrosion control study to reduce the corrosivity of the water. Corrosion control, and necessary components, will be in place by 1Q2024.

For more information, please contact **Undine Texas, LLC.** at **979-314-4413** or **17681 Telge Rd., Cypress, TX 77429.**

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by Shady Brook Acres. State Water System ID#:TX1700031 .
Date distributed: _6/1/2023__.