

Rec'd 5/30/23

Certification

Water systems serving 10,000 or more must use:
 Distribution Method I

Water systems serving 500 - 9,999 must use:
 Distribution Method I OR
 Distribution Method II, III, and IV

Water system serving less than 500 people must use:
 Distribution Method I OR
 Distribution Method II, III, and IV OR
 Distribution Method III and IV

OFFICE USE ONLY

Public Water Supply name(s):

City of Brookhaven

7-digit Public Water Supply ID #(s):

0430002

Distribution (Methods used to distribute CCR to our customers)

I. CCR directly delivered using one or more method below:

- *Provided direct Web address to customer
- Hand delivered
- Mail paper copy
- Email

*Add direct Web address (URL) here:

bit.ly/water-report-2022

Example: "The current CCR is available at www.waterworld.org/ccrMay2023/0830001.pdf. call (000) 000-0000 for paper copy".

II. Published the complete CCR in the local newspaper.

Date(s) published:

III. Inform customers the CCR will not be mailed but is available upon request.

Date(s) notified:

List method(s) used (examples - newspaper, water bills, newsletter, etc.).

Location distributed:

IV. Post the complete CCR continuously at the local water office.

Date:

"Good Faith Effort" in other public buildings with the water system service area (i.e. City Hall, Public Library, etc.)

Locations posted:

Certification

This Community public water system confirms it has distributed its Consumer Confidence Report (CCR) to its customers and the appropriate notices of availability have been given and that the information contained in its CCR is correct and consistent with the compliance monitoring data previously submitted to the MS State Department of Health, Bureau of Public Water Supply and the requirements of the CCR rule.

Name:

Kayla Walters

Title:

Billing Administrator

Date:

5/30/23

Submittal

Email the following required items to water.reports@msdh.ms.gov regardless of distribution methods used.

1. CCR (Water Quality Report)
2. Certification
3. Proof of delivery method(s)

CITY OF BROOKHAVEN ♦ WATER DEPARTMENT
2022 ANNUAL WATER QUALITY REPORT
PWS ID# 0430002



Is my water safe?

Yes, it is our job to provide safe drinking water to the City of Brookhaven. Should a problem arise, we will notify the public through newspapers, radio and television. This notification is part of our job to keep the public informed. The water system is comprised of several pumps, chemical feed systems, and miles of underground piping. This system is monitored by a computerized control system capable of sending out alarms 24 hours per day/ 7 days per week if a problem occurs. Personnel are prepared to respond to these alarms should they occur during nights, holidays and weekends. As customers, you can assist us in keeping the system safe. Please review **"You can Help"** on page 4. We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. People with severely compromised immune systems such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections.

These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

What is the source of the water?

Our water source is the city of Brookhaven Water Department, which has 9 wells. Our wells draw from the Miocene series, citronella formation.

Source water assessment and its availability

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Description of the water treatment process

Your water is ground water pumped from wells with depths ranging from 160 feet to 1200 feet with an average depth of about 500 feet. The raw water is very soft and can be aggressive to plumbing if not treated to correct this problem.

The initial stage of the treatment process for 6 of the wells is pH adjustment. pH (potential of hydrogen) is a measure of the acidity or alkalinity of an aqueous solution. The ground water in these 6 wells has a low pH. The pH is raised by the addition of a food grade hydrated lime to minimize corrosion. All 9 of the wells are then disinfected using chlorine to kill (disinfect) dangerous bacteria and microorganisms that may be in the water. Water leaving this type of disinfection process will retain a small amount of chlorine residual. Our staff is able to monitor the chlorine residual in the system to insure it remains a safe product from treatment site to the customers tap. Disinfection is one of the major public health advances allowing public water supplies to exist in the past century.

The final treatment stage is that of fluoridation. Fluoridation is accomplished by the addition of a controlled amount of fluoride to promote dental health. Brookhaven has fluoridated the water supply for over 50 years. This is in line with national policy as approximately 75% of the US population is served by fluoridated water supplies. Because of its contribution to the large decline in cavities in the United States since the 1960s, The US Centers for Disease Control (CDC) named community water fluoridation one of 10 great public health achievements of the 20th century.

In addition to the treatment processes described above, the city must meet a rigorous monitoring schedule to ensure the water meets Federal and State standards. This includes routine microbiological testing (monthly) and other routine monitoring (quarterly, semi-annual and annual) for radiological and chemical contaminants.

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Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference – try one today and soon it will become second nature.

- Take short showers - a 5-minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
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it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.

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Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides – they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting it to a public water system.
- Dispose of chemicals properly; take used motor oil to a recycling center.
- Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If there are no active groups, consider starting one. Use EPA's Adopt Your Watershed to locate groups in your community or visit the Watershed Information Network's How to Start a Watershed Team.
- Organize a storm drain stenciling project with your local government or water supplier. Stencil a message next to the street drain reminding people **"Dump No Waste - Drains to River"** or **"Protect Your Water."** Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.

Additional Information for Fluoride

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", CITY OF BROOKHAVEN is required to report certain results pertaining to fluoridation of our water system. The number of months in the previous calendar year in which average fluoride sample results were within the optimal range of 0.6 – 1.2 parts per million (ppm) was 9. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6 – 1.2 ppm was 76%. The number of months samples were collected and analyzed in the previous calendar year was 11.

Additional Information for Lead

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. The BROOKHAVEN WATER DEPARTMENT is responsible for providing high quality drinking water but 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>

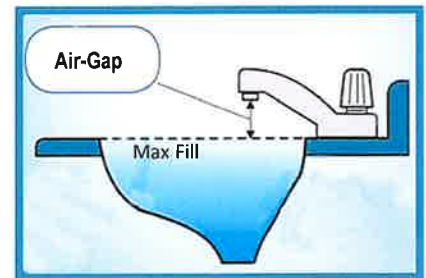
Cross Connection Control Program

The purpose of this program is to determine whether a cross-connection may exist at your home or business. A cross connection is an unprotected or improper connection to a public water distribution system that may cause contamination or pollution to enter the system. When identified, these may be controlled by installation of a back-flow prevention device. We are responsible for enforcing cross-connection control regulations and ensuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below, please contact us so that we can discuss the issue, and if needed, survey your connection and assist you in isolating it if that is necessary.

- Boiler/ Radiant heater (water heaters not included)
- Underground lawn sprinkler systems with chemical feed
- Additional source(s) of water on the property
- Decorative pond
- Watering trough

You Can Help

We request all customers' assistance with protecting our water supply. Please ensure that no hoses are submerged in any container when connected to the water supply. This includes dishwasher hoses, handheld showers hoses, hoses to faucets in sinks, or hoses used to fill swimming pools. If it is necessary to leave a faucet running to avoid freezing pipes, please inspect all faucets both outdoors and indoors to ensure all hoses are disconnected and faucets have an air gap. This is not only protecting your neighbors, but also protecting yourself and your family from potential



self-contamination. A water system break can cause a sudden drop in pressure. If the break is serious or circumstances are right such as a heavy demand on the water system, the water can be siphoned back into the system unless there is an air gap to break the siphon. There are small inexpensive (\$6-\$8) antisiphon devices like the one shown to the left that may be purchased at the local hardware stores and can be installed by customers. While these are not as effective as the commercial backflow preventers, they provide some protection and the installation is a simple. Screw it onto the end of the outdoor faucet and tighten the set screw.



Antisiphon Device

Unregulated Contaminants

As a part of the 1996 Safe Drinking Water Act amendments, a procedure to monitor up to 30 potential unregulated contaminants every five years. No unregulated contaminants were found in the City of Brookhaven Water Supply for 2022.

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the number of contaminants in water provided by public water systems. The table below lists all the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

Inorganic Contaminants								
Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Sample Location: 750 Zetus Rd								
Nitrate (ppm)	10	10	<0.08	NA	1.22	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate-Nitrite (ppm)	10	10	<0.1	NA	1.22	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	2	2	0.001	NA	0.001	2022-11-29	NO	Discharge of drilling wastes and metal refineries; Erosion of natural deposits
Chromium (ppm)	0.1	0.1	0.0005	NA	0.0005	2022-11-29	NO	Discharge from steel and pulp mills Erosion of natural deposits
Fluoride (ppm)	4	4	0.899	NA	0.899	2022-10-22	NO	Erosion of natural deposits; Additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sample Location: 628 Railroad N Ave								
Nitrate (ppm)	10	10	1.51	NA	1051	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate-Nitrite (ppm)	10	10	1.54	NA	1.54	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	2	2	0.0879	NA	0.0879	2022-11-29	NO	Discharge of drilling wastes and metal refineries; Erosion of natural deposits
Chromium (ppm)	0.1	0.1	0.0005	NA	0.0005	2022-11-29	NO	Discharge from steel and pulp mills erosion of natural deposits
Fluoride (ppm)	4	4	0.788	NA	0.788	2022-10-17	NO	Erosion of natural deposits; Additive which promotes strong teeth; Discharge from fertilizer and aluminum factories

Inorganic Contaminants (cont)

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your Water	Range	Sample Date	Violation	Typical Source	
Sample Location: 1065 Fender Dr.								
Nitrate (ppm)	10	10	<0.08	NA	<0.08	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate-Nitrite (ppm)	10	10	<0.1	NA	<0.1	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	2	2	0.0011	NA	0.0011	2022-11-29	NO	Discharge of drilling wastes and metal refineries; Erosion of natural deposits
Chromium (ppm)	0.1	0.1	< 0.0005	NA	< 0.0005	2022-11-29	NO	Discharge from steel and pulp mills erosion of natural deposits
Fluoride (ppm)	4	4	0.632	NA	0.632	2022-10-17	NO	Erosion of natural deposits; Additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sample Location: 660 Saints Trail								
Nitrate (ppm)	10	10	<0.08	NA	<0.08	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate-Nitrite (ppm)	10	10	<0.1	NA	<0.1	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	2	2	0.0011	NA	0.0011	2018	NO	Discharge of drilling wastes and metal refineries; Erosion of natural deposits
Chromium (ppm)	0.1	0.1	0.002	NA	0.002	2018	NO	Discharge from steel and pulp mills erosion of natural deposits
Fluoride (ppm)	4	4	0.727	NA	0.727	2018	NO	Erosion of natural deposits; Additive which promotes strong teeth; Discharge from fertilizer and aluminum factories

Inorganic Contaminants - Lead & Copper (action level (AL) determined at the consumer tap)

Contaminants	# of samples	MCLG	Action Level (AL)	90 th % of Sampled Water	Sample Date	# of Samples Exceeding AL	Exceeds AL	Typical Source
Lead (ppm)	22	0	0.015	0.001	2021	0	NO	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	22	1.3	1.3	0.1	2021	0	NO	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfectants & Disinfectant By-Products								
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)								
Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Chlorine (as Cl ₂) (ppm)	4	4	1.80	0.79	3.10	2022	NO	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	3.21	3.21	3.21	2022-06-19	NO	By-product of drinking water chlorination
Total Trihalomethanes TTHM's (ppb)	NA	80	3.63	3.63	3.63	2022-06-03	NO	By-product of drinking water disinfection

Volatile Organic Compounds								
Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your Water	Range		Sample Date	Violation	Typical Source
Sample Location: 628 N Railroad Avenue and West of I-55 on Saints Trail								
No VOC's Detected, ppb	Varies	Varies	<0.5	NA	<0.5	2022-12-01 & 2020-10-27	NO	Discharge from factories and dry cleaners.

Unregulated contaminants								
SITE ID	WTP	1	3	5	6	7	8	9
Total Organic Carbon	NA	BDL	BDL	BDL	BDL	BDL	NA	BDL
Bromide	NA	37.4	29.8	138	195	22.3	NA	24.5
Butylated hydroxyanisole	BDL	NA	NA	NA	NA	BDL	BDL	BDL
o-Toluidine	0.0068J	NA	NA	NA	NA	BDL	BDL	BDL
Quinoline	BDL	NA	NA	NA	NA	BDL	BDL	BDL
Germanium	0.1	NA	NA	NA	NA	1.2	1.0	1.0
Manganese	1.2	NA	NA	NA	NA	2.2	1.5	2.0
Sodium	16,000	NA	NA	NA	NA	61,100	60,000	55,200
All results in µg/l (ppb) NA – no results available								

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.

Definitions of Drinking Water Acronyms and Terms

Acronym	Term	Definition
MCLG	Maximum Contaminant Level Goal	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.
MCL	Maximum Contaminant Level	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.
TT	Treatment Technique	A required process intended to reduce the level of a contaminant in drinking water.
AL	Action Level	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
	Variances and Exemptions	State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	Maximum residual disinfection level goal	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.
MRDL	Maximum residual disinfectant level	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.
MNR	Monitored Not Regulated	A contaminant that is being monitored but has no current regulatory limit
MPL	Maximum Permissible Level	A State Assigned regulatory limit
	Level 1 Assessment	A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in the water system
	Level 2 Assessment	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 the water system

Definition of Units used in the Reports

Unit or Abbreviation	Definitions
ppm or mg/l	parts per million (ppm) or milligrams per liter (mg/l)
ppb or µg/l	parts per billion (ppb) or micrograms per liter (µg/l)
pCi/L	Pico Curies per liter pCi/L (a measure of radioactivity)
NA	Not Applicable
ND	Not Detected
NR	Monitoring not required, but recommended.

FOR MORE INFORMATION, PLEASE CONTACT

Contact Name:	Keith Lewis , Public Works Director
Address:	301 S First Street --Brookhaven, MS 39601
Phone ♦ Fax:	601-833-7721 ♦ 601-823-5968
E-Mail:	bhavenwater@cableone.net

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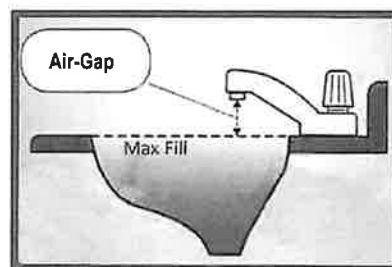
Cross Connection Control Program

The purpose of this program is to determine whether a cross-connection may exist at your home or business. A cross connection is an unprotected or improper connection to a public water distribution system that may cause contamination or pollution to enter the system. When identified, these may be controlled by installation of a back-flow prevention device. We are responsible for enforcing cross-connection control regulations and ensuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below, please contact us so that we can discuss the issue, and if needed, survey your connection and assist you in isolating it if that is necessary.

- Boiler/ Radiant heater (water heaters not included)
- Underground lawn sprinkler systems with chemical feed
- Additional source(s) of water on the property
- Decorative pond
- Watering trough

You Can Help

We request all customers' assistance with protecting our water supply. Please ensure that no hoses are submerged in any container when connected to the water supply. This includes dishwasher hoses, handheld showers hoses, hoses to faucets in sinks, or hoses used to fill swimming pools. If it is necessary to leave a faucet running to avoid freezing pipes, please inspect all faucets both outdoors and indoors to ensure all hoses are disconnected and faucets have an air gap. This is not only protecting your neighbors, but also protecting yourself and your family from potential



Antisiphon Device

self-contamination. A water system break can cause a sudden drop in pressure. If the break is serious or circumstances are right such as a heavy demand on the water system, the water can be siphoned back into the system unless there is an air gap to break the siphon. There are small inexpensive (\$6-\$8) antisiphon devices like the one shown to the left that may be purchased at the local hardware stores and can be installed by customers. While these are not as effective as the commercial backflow preventers, they provide some protection and the installation is a simple. Screw it onto the end of the outdoor faucet and tighten the set screw.

Unregulated Contaminants

As a part of the 1996 Safe Drinking Water Act amendments, a procedure to monitor up to 30 potential unregulated contaminants every five years. No unregulated contaminants were found in the City of Brookhaven Water Supply for 2022.

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the number of contaminants in water provided by public water systems. The table below lists all the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

Inorganic Contaminants								
Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Sample Location: 750 Zetus Rd								
Nitrate (ppm)	10	10	<0.08	NA	1.22	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate-Nitrite (ppm)	10	10	<0.1	NA	1.22	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	2	2	0.001	NA	0.001	2022-11-29	NO	Discharge of drilling wastes and metal refineries; Erosion of natural deposits
Chromium (ppm)	0.1	0.1	0.0005	NA	0.0005	2022-11-29	NO	Discharge from steel and pulp mills Erosion of natural deposits
Fluoride (ppm)	4	4	0.899	NA	0.899	2022-10-22	NO	Erosion of natural deposits; Additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sample Location: 628 Railroad N Ave								
Nitrate (ppm)	10	10	1.51	NA	1051	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate-Nitrite (ppm)	10	10	1.54	NA	1.54	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	2	2	0.0879	NA	0.0879	2022-11-29	NO	Discharge of drilling wastes and metal refineries; Erosion of natural deposits
Chromium (ppm)	0.1	0.1	0.0005	NA	0.0005	2022-11-29	NO	Discharge from steel and pulp mills erosion of natural deposits
Fluoride (ppm)	4	4	0.788	NA	0.788	2022-10-17	NO	Erosion of natural deposits; Additive which promotes strong teeth; Discharge from fertilizer and aluminum factories

Inorganic Contaminants (cont)								
Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your Water	Range		Sample Date	Violation	Typical Source
Sample Location: 1065 Fender Dr.								
Nitrate (ppm)	10	10	<0.08	NA	<0.08	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate-Nitrite (ppm)	10	10	<0.1	NA	<0.1	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	2	2	0.0011	NA	0.0011	2022-11-29	NO	Discharge of drilling wastes and metal refineries; Erosion of natural deposits
Chromium (ppm)	0.1	0.1	< 0.0005	NA	< 0.0005	2022-11-29	NO	Discharge from steel and pulp mills erosion of natural deposits
Fluoride (ppm)	4	4	0.632	NA	0.632	2022-10-17	NO	Erosion of natural deposits; Additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sample Location: 660 Saints Trail								
Nitrate (ppm)	10	10	<0.08	NA	<0.08	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate-Nitrite (ppm)	10	10	<0.1	NA	<0.1	2022-03-01	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	2	2	0.0011	NA	0.0011	2018	NO	Discharge of drilling wastes and metal refineries; Erosion of natural deposits
Chromium (ppm)	0.1	0.1	0.002	NA	0.002	2018	NO	Discharge from steel and pulp mills erosion of natural deposits
Fluoride (ppm)	4	4	0.727	NA	0.727	2018	NO	Erosion of natural deposits; Additive which promotes strong teeth; Discharge from fertilizer and aluminum factories

Inorganic Contaminants - Lead & Copper (action level (AL) determined at the consumer tap)								
Contaminants	# of samples	MCLG	Action Level (AL)	90 th % of Sampled Water	Sample Date	# of Samples Exceeding AL	Exceeds AL	Typical Source
Lead (ppm)	22	0	0.015	0.001	2021	0	NO	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	22	1.3	1.3	0.1	2021	0	NO	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfectants & Disinfectant By-Products								
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)								
Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Chlorine (as Cl ₂) (ppm)	4	4	1.80	0.79	3.10	2022	NO	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	3.21	3.21	3.21	2022-06-19	NO	By-product of drinking water chlorination
Total Trihalomethanes TTHM's (ppb)	NA	80	3.63	3.63	3.63	2022-06-03	NO	By-product of drinking water disinfection

Volatile Organic Compounds								
Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your Water	Range		Sample Date	Violation	Typical Source
Sample Location: 628 N Railroad Avenue and West of I-55 on Saints Trail								
No VOC's Detected, ppb	Varies	Varies	<0.5	NA	<0.5	2022-12-01 & 2020-10-27	NO	Discharge from factories and dry cleaners.

Unregulated contaminants								
SITE ID	WTP	1	3	5	6	7	8	9
Total Organic Carbon	NA	BDL	BDL	BDL	BDL	BDL	NA	BDL
Bromide	NA	37.4	29.8	138	195	22.3	NA	24.5
Butylated hydroxyanisole	BDL	NA	NA	NA	NA	BDL	BDL	BDL
o-Toluidine	0.0068J	NA	NA	NA	NA	BDL	BDL	BDL
Quinoline	BDL	NA	NA	NA	NA	BDL	BDL	BDL
Germanium	0.1	NA	NA	NA	NA	1.2	1.0	1.0
Manganese	1.2	NA	NA	NA	NA	2.2	1.5	2.0
All results in µg/l (ppb) NA – no results available								

Raw Water Samples (Well #1 removed from service)						
Parameter	3	5	6	8	9	Well ID
	624 N Railroad	420 N Railroad	624 N Railroad	1065 Fender Dr	660 Saints Tr	Location
	8/11/2017	8/11/2017	8/11/2017	8/11/2017	8/11/2017	Date
Color	5.0	5.0	5.0	5.0	5.0	Units
pH	6.4	6.4	6.4	7.6	7.6	SU
Alkalinity	22.70	12.50	25.80	113.00	99.70	mg/l
Chloride	4.10	17.26	32.66	2.65	2.96	mg/l
Sulfate	2.07	6.16	9.93	11.37	13.38	mg/l
Fluoride	0.08	0.05	0.05	0.13	0.13	mg/l
Carbon Dioxide	20.00	11.00	23.00	6.00	6.00	mg/l
Iron	0.02	0.03	0.07	0.03	0.15	mg/l
Iron (field)	<0.10	0.10	<0.10	0.10	0.10	mg/l
Magnesium	1.10	1.72	3.27	0.02	0.0189	mg/l
Manganese	0.0003	0.0020	0.0010	0.0010	0.0016	mg/l
Calcium	3.20	4.46	8.01	0.36	0.415	mg/l
Sodium	6.45	14.85	21.45	63.39	57.00	mg/l
Calculated Sodium	7.40	11.00	21.80	5805.00	53.70	mg/l
Potassium	1.89	1.17	1.61	0.51	0.47	mg/l
Residue, Total Filterable	33	53	98	147	134	mg/l
Hardness	12.5	18.2	33.6	1.4	1.0	mg/l

Definitions of Drinking Water Acronyms and Terms

Acronym	Term	Definition
MCLG	Maximum Contaminant Level Goal	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.
MCL	Maximum Contaminant Level	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.
TT	Treatment Technique	A required process intended to reduce the level of a contaminant in drinking water.
AL	Action Level	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
	Variations and Exemptions	State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	Maximum residual disinfection level goal	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.
MRDL	Maximum residual disinfectant level	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.
MNR	Monitored Not Regulated	A contaminant that is being monitored but has no current regulatory limit
MPL	Maximum Permissible Level	A State Assigned regulatory limit
	Level 1 Assessment	A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in the water system
	Level 2 Assessment	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 the water system

Definition of Units used in the Reports

Unit or Abbreviation	Definitions
ppm or mg/l	parts per million (ppm) or milligrams per liter (mg/l)
ppb or µg/l	parts per billion (ppb) or micrograms per liter (µg/l)
pCi/L	Pico Curies per liter pCi/L (a measure of radioactivity)
NA	Not Applicable
ND	Not Detected
NR	Monitoring not required, but recommended.

FOR MORE INFORMATION, PLEASE CONTACT

Contact Name:	Keith Lewis , Public Works Director
Address:	301 S First Street –Brookhaven, MS 39601
Phone ♦ Fax:	601-833-7721 ♦ 601-823-5968
E-Mail:	<u>kwatts@brookhaven-ms.gov</u>

060465000	04/24	05/24
SERVICE ADDRESS		
315 N WHITWORTH AVE		
SUBJECT	METER READINGS PREVIOUS	USED
	60	50
CHARGE FOR SERVICES		

Cut off on 6/13/2023

WAT	32.20
SEW	34.65
GAR	32.00
PAST DUE	98.73
NET DUE >>>	197.58
SAVE THIS >>	9.89
GROSS DUE >>	207.47

CITY OF BROOKHAVEN
 WATER DEPARTMENT
 P.O. BOX 560
 BROOKHAVEN, MS 39602
 601-833-7721
 BROOKHAVEN.MS-EZPAY.COM

FIRST-CLASS MAIL
 U.S. POSTAGE
 PAID
 PERMIT NO 150
 BROOKHAVEN, MS

ADDRESS SERVICE REQUESTED

PAY NET AMOUNT ON OR BEFORE DUE DATE	DUE DATE 06/13/2023	PAY GROSS AMOUNT AFTER DUE DATE
NET AMOUNT 197.58	SAVE THIS 9.89	GROSS AMOUNT 207.47

Important information about your drinking water is available in the 2022 Consumer Confidence Report at bit.ly/water-report-2022
 You may request a hard copy by checking this box or by calling our office at 601-833-7721.



FAY BARRAM

315 N WHITWORTH AVE
 BROOKHAVEN MS 39601-3052



ACCOUNT NO.	SERVICE FROM	SERVICE TO
060395000	04/24	05/24

SERVICE ADDRESS
112 JOSEPHINE ST

CURRENT	METER READINGS		USED
	PREVIOUS		
1677	1672		5

CHARGE FOR SERVICES

WAT	21.70
SEW	22.40
GAR	32.00
NET DUE >>>	76.10
SAVE THIS >>	7.61
GROSS DUE >>	83.71

RETURN THIS STUB WITH PAYMENT TO:

CITY OF BROOKHAVEN
WATER DEPARTMENT
P.O. BOX 560
BROOKHAVEN, MS 39602
601-833-7721
BROOKHAVEN.MS-EZPAY.COM

PRESORTED
FIRST-CLASS MAIL
U.S. POSTAGE
PAID
PERMIT NO 150
BROOKHAVEN, MS

ADDRESS SERVICE REQUESTED

PAY NET AMOUNT ON OR BEFORE DUE DATE	DUE DATE	PAY GROSS AMOUNT AFTER DUE DATE
	06/15/2023	
NET AMOUNT	SAVE THIS	GROSS AMOUNT
76.10	7.61	83.71

Important information about your drinking water is available in the 2022 Consumer Confidence Report at bit.ly/water-report-2022
You may request a hard copy by checking this box or by calling our office at 601-833-7721.

TAMMY V. DAVIS - 060395000

112 JOSEPHINE ST
BROOKHAVEN MS 39601-2942



Copy/Print

Send

Job Status

Time	Dept. ID	Destination
06/02 10:20 AM	-----	811
06/01 8:53 AM	-----	pgreene@turner-industries.com
05/31 7:16 AM	-----	811
05/30 2:10 PM	-----	water.reports@msdh.ms.gov
05/30 11:36 AM	-----	Kayla Email
05/30 9:46 AM	-----	mickey.m.mcmorris@fhsinc.org
05/30 7:53 AM	-----	811

Details

Communicate Mgt. Report

Specify as Send Destination

Register Destination