

2021 CERTIFICATION

Consumer Confidence Report (CCR) 2022 JUN 25 AM 10:16

Town of Vardaman

PRINT Public Water System Name

0070019

List PWS ID #s for all Community Water Systems included in this CCR

CCR DISTRIBUTION (Check all boxes that apply)

INDIRECT DELIVERY METHODS (Attach copy of publication, water bill or other)	DATE ISSUED
<input checked="" type="checkbox"/> Advertisement in local paper (Attach copy of advertisement)	6.22.22
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<input type="checkbox"/> Other (Describe: _____)	
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CERTIFICATION

I hereby certify that the Consumer Confidence Report (CCR) has been prepared and distributed to its customers in accordance with the appropriate distribution method(s) based on population served. Furthermore, I certify that the information contained in the report is correct and consistent with the water quality monitoring data for sampling performed and fulfills all CCR requirements of the Code of Federal Regulations (CFR) Title 40, Part 141.151 - 155.

Tiffany Ann Dauter
Name

City Clerk
Title

6.22.22
Date

SUBMISSION OPTIONS (Select one method ONLY)

You must email or mail a copy of the CCR, Certification, and associated proof of delivery method(s) to the MSDH, Bureau of Public Water Supply.

Mail: (U.S. Postal Service)
MSDH, Bureau of Public Water Supply
P.O. Box 1700
Jackson, MS 39215

Email: water.reports@msdh.ms.gov

2021 Annual Drinking Water Quality Report
 Town of Vardaman
 PWS#:0070019
 June 2022

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to providing you with information because informed customers are our best allies. Our water source is from wells drawing from the Gordo and Eutaw McShan Aquifers.

The source water assessment has been completed for our public water system to determine the overall susceptibility of its drinking water supply to identify potential sources of contamination. A report containing detailed information on how the susceptibility determinations were made has been furnished to our public water system and is available for viewing upon request. The wells for the Town of Vardaman have received lower rankings in terms of susceptibility to contamination.

If you have any questions about this report or concerning your water utility, please contact Tiffany Dauzat at 662.682.7561. We want our valued customers to be informed about their water utility. If you want to learn more, please join us at any of our regularly scheduled meetings. They are held on the first Tuesday of the month at 7:00 PM at the Vardaman Court Room, 206 N Main Street, Vardaman.

We routinely monitor for contaminants in your drinking water according to Federal and State laws. This table below lists all of the drinking water contaminants that were detected during the period of January 1st to December 31st, 2021. In cases where monitoring wasn't required in 2021, the table reflects the most recent results. As water travels over the surface of land or underground, it dissolves naturally occurring minerals and, in some cases, radioactive materials and can pick up substances or contaminants from the presence of animals or from human activity; microbial contaminants, such as viruses and bacteria, that 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 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 that limit the amount of certain contaminants in water provided by public water systems. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily indicate that the water poses a health risk.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL) - The "Maximum Allowed" (MCL) is 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 (MCLG) - The "Goal" (MCLG) is 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 a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary to control microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk of health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

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 our water system.

TEST RESULTS								
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/AQL/MRDL	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants								
8. Arsenic	N	2020*	5.8	No Range	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes

10. Barium	N	2020*	.2135	.2048 - .2135	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2020*	1	.9 - 1	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2017/19*	.1	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2020*	.159	.157 - .159	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2017/19*	5	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
21. Selenium	N	2020*	4.3	No Range	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	N	2019*	180000	No Range	ppb	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.

Disinfection By-Products

82. TTHM [Total trihalomethanes]	N	2017*	2.07	No Range	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2021	1.1	.85- 2.21	mg/l	0	MRDL = 4	Water additive used to control microbes

* Most recent sample. No sample required for 2021.

As you can see by the table, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some contaminants have been detected however the EPA has determined that your water IS SAFE at these levels.

We are required to monitor your drinking water for specific contaminants on a monthly basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. In an effort to ensure systems complete all monitoring requirements, MSDH now notifies systems of any missing samples prior to the end of the compliance period.

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. Our water system 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>. The Mississippi State Department of Health Public Health Laboratory offers lead testing. Please contact 601.576.7582 if you wish to have your water tested.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1.800.426.4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons 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/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline 1.800.426.4791.

The Town of Vardaman works around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

Proof Of Publication

STATE OF MISSISSIPPI,
COUNTY OF CALHOUN

Personally came before me, the undersigned, a Notary Public, in and for Calhoun County, Mississippi, Joel McNece, Publisher of The Calhoun County Journal, a newspaper published in Bruce, Calhoun County, in said state, who being duly sworn, deposes and says that The Calhoun County Journal is a newspaper as defined and prescribed in Senate Bill No. 203 enacted at the regular session of the Mississippi Legislature of 1948, amending Section 1858 of the Mississippi Code of 1942, and the publication of a notice, of which annexed copy, in the matter of

TOWN OF VARDAMAN WATER QUALITY REPORT

has been made in said newspaper one time, to-wit:

On the 22 day of JUNE 2022

Joel McNece

Joel McNece
Publisher

Sworn to and subscribed before me, this 22 day of June, 2022.

Celia D. Hillhouse

Celia D. Hillhouse,
Notary Public

My commission expires February 18, 2023

SEAL



2021 Annual Drinking Water Quality Report
Town of Vardaman
PAWS 2070019
June 2022

We're pleased to deliver to you our 2021 Annual Quality Water Report. This report is designed to inform you about the quality of water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect your water resources. We have endeavored to provide you with information because informed customers are our best allies. Our water comes from wells drawing from the Ocho and Lower Mobile Aquifers.

The 2021 water assessment has been completed for our public water system to determine the general susceptibility of its drinking water supply to identify potential sources of contamination. A report containing detailed information on how the susceptibility determinations were made has been furnished to our public water system and is available for viewing upon request. The table for the Town of Vardaman has provided their findings in terms of susceptibility to contamination.

If you have any questions about the report or concerning your water utility, please contact Tiffany Dupont at 602.082.7201. We want our valued customers to be informed about their water utility. If you want to learn more, please join us at any of our regularly scheduled meetings. They are held on the first Tuesday of the month at 7:00 PM at the Vardaman Court Room, 206 N Main Street, Vardaman.

We routinely monitor for contaminants in your drinking water according to Federal and State laws. This table below lists all of the drinking water contaminants that were detected during the period of January 1st to December 31st, 2021. In cases where maximum allowable water is required in 2021, the table reflects the most recent results. All these values are the maximum of total or individual. It describes naturally occurring minerals and in some cases, radioactive materials and the possible substantial of contaminants from the presence of animals or from human activity. Inorganic contaminants, such as nitrate and sulfate, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. Inorganic contaminants, such as lead and copper, which can be naturally occurring or result from urban storm-water runoff, industrial, or domestic wastewater-discharges, oil and gas production, mining, or leaching. Volatiles 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 compounds, which are by-products of industrial processes and petroleum production, and can also come from gas stations and auto systems, radiating contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities. Inorganic radionuclides that may be in water from natural sources. Volatile organic compounds that are dissolved in water from public water systems. All drinking water, including bottled drinking water, may be occasionally expected to contain at least small amounts of some contaminants. It is important to remember that the presence of these contaminants does not necessarily indicate that the water poses a health risk.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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Maximum Contaminant Level Goal (MCLG) - The "Goal" (MCLG) is 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 a disinfectant allowed in drinking water. There is compelling evidence that addition of a disinfectant is necessary to control microbial contaminants.

Maximum Residual Disinfectant Level Goal (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.

Parts per million (ppm) or milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (µg/l) - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

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.

Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Levels or # of Samples Exceeded	Unit Measure	MCLG	MCL	Likely Source of Contaminant
Inorganic Contaminants								
E. Ammonia	N	2/20/21	0.8	NO RANGE	ppm	NA	NA	Leakage of natural deposits, runoff from agriculture, animal waste

10. Barium	N	2/20/21	3.15	0.001 - 2.18	ppm	2	2	Change of drilling within catchment from natural reservoir, location of natural deposits
18. Chromium	N	2/20/21	1	0 - 1	ppm	100	100	Change from steel and pig iron, a natural deposit
74. Copper	N	2/17/21	1	0	ppm	1.5	1.5	Corrosion of household plumbing systems, corrosion of natural deposits, lead pipes from water mains, etc.
18. Fluoride	N	2/20/21	1.29	1.07 - 1.51	ppm	4	4	Erosion of natural deposits, water mains, runoff from steel and pig iron, discharge from fertilizer and other fertilizers
19. Lead	N	2/17/21	0	0	ppm	0	0	Corrosion of household plumbing systems, erosion of natural deposits
21. Uranium	N	2/20/21	4.2	NO RANGE	ppm	30	30	Change from natural and man-made sources, erosion of natural deposits, discharge from mining
Radium	N	2/19/21	100000	NO RANGE	ppm	0	0	Radon gas, Water Treatment of Chlorine, Water Softeners and other minerals

Disinfection By-Products								
58. Trihalomethanes (THM)	N	2/21/21	2.07	0.000000 - 2.07	ppm	0	0	Byproduct of drinking water disinfection
Chloroform	N	2/21/21	1.1	0.000000 - 2.21	ppm	0	MRDL = 4	White disinfectant used in water treatment

* Most recent results. No sample required for 2021.

As you can see by the table, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some contaminants have been detected however the EPA has determined that your water is SAFE at these levels.

We are required to monitor your drinking water for specific contaminants on a monthly basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. In an effort to ensure systems comply with monitoring requirements, MRDL from multiple systems of any drinking water plant in the area of the catchment point.

A violent, elevated level 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. Our water system is responsible for providing you 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 amount of lead that can be leached into your water 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 how to test for lead is available from the State Drinking Water Hotline at 1-800-WATER-911 or the Mississippi Department of Health, Public Health Laboratory, 601 N. State Street, Jackson, Mississippi. Please contact 601-475-7300 if you wish to have your water tested.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. These substances can be inorganic, organic, synthetic, or radioactive. All drinking water, including bottled water, may occasionally contain naturally occurring substances. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4761.

Some people may be more vulnerable to contaminants in drinking water than the general population. Infants and young children, pregnant women, and the elderly are particularly vulnerable. People with compromised immune systems, such as those with HIV/AIDS or other immune system disorders, some cancer patients, and those on dialysis are also at higher risk. These people should seek advice about drinking water. For more information on this, EPA/MSD provides an appropriate notice to advise the risk of infection. On-line information and other educational materials are available from the State Drinking Water Hotline at 1-800-426-4761.

The Town of Vardaman works around the clock to provide you with quality water to every tap. We ask that all our customers have a standard water service, which will be the heart of our community, our way of life and our community's success.