

# **City of Senatobia**

## **2023 Consumer Confidence Report**

### **PWS ID# 0690005**

#### **Spanish (Español)**

Este informe contiene información muy importante sobre la calidad de su agua potable. Por favor lea este informe o comuníquese con alguien que pueda traducir la información.

#### **Is my water safe?**

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. 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/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).

#### **Where does my water come from?**

Our water comes from the Lower Wilcox Aquifer. The City has 5 deep wells to serve its customers.

#### **Source water assessment and its availability**

A source water assessment has been completed and copies are available at the Public Works Department Office located at 405 Strayhorn Street.

## **Why are there contaminants in my drinking water?**

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 Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791).

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: 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 stormwater 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 stormwater 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 stormwater runoff, and septic systems; and 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. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health. The wells for The City of Senatobia have received moderate susceptibility rankings to contamination.

## **How can I get involved?**

You are welcome to call our office at 662-562-8288. Our office hours are 8:00 AM to 4:30 PM Monday through Friday.

## **Regulation Governing Fluoridation of Community Water Supplies**

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", MS0690005 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 1. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6 - 1.2 ppm was 20%. 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 City of Senatobia 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>.

## **Additional Information for Arsenic**

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

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## **Water Quality Data Table**

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of 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 actually 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.

<u>Contaminants</u>	<u>MCLG or MRDLG</u>	<u>MCL, TT, or MRDL</u>	<u>Your Water</u>	<u>Range</u>		<u>Sample Date</u>	<u>Violation</u>	<u>Typical Source</u>
				<u>Low</u>	<u>High</u>			
<b>Radioactive contaminants</b>								
Gross Alpha (PCI/L)	0	15	3.1	NA	NA	2018	No	Erosion of Natural Deposits
Radium-226 (PCI/L)	NA	NA	0.37	NA	NA	2019	No	Erosion of Natural Deposits
Radium- 228 (PCI/L)	NA	NA	1.0	NA	NA	2019	No	Erosion of Natural Deposits
Combined Radium (-226 & -228) (PCI/L)	0	5	1.37	NA	NA	2019	No	Erosion of Natural Deposits
<u>Contaminants</u>	<u>MCLG or MRDLG</u>	<u>MCL, TT, or MRDL</u>	<u>Your Water</u>	<u>Range</u>		<u>Sample Date</u>	<u>Violation</u>	<u>Typical Source</u>
				<u>Low</u>	<u>High</u>			
<b>Disinfectants &amp; Disinfectant By-Products</b>								
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)								
Chlorine (as Cl2) (ppm)	4	4	1.20	0.15	3.00	2023	No	Water additive used to control microbes
TTHMs [Total Trihalomethanes] (ppb)	NA	80	6.46	NA	NA	2023	No	By-product of drinking water disinfection
Haloacetic acids Haa5 (ppb)	NA	60	2.7	NA	NA	2023	No	By-product of drinking water disinfection
<b>Inorganic Contaminants</b>								
Fluoride (ppm)	4	4	1.35	0.38	1.35	2022	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Barium (ppm)	2	2	.0215	.010	.0215	2022	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Cyanide (ppm)	0.20	0.20	.015	<.015	.015	2022	No	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Chromium (ppm)	0.10	0.10	.0005	<.0005	.0005	2022	No	Discharge from steel and pulp mills; erosion of natural deposits
Sodium (ppm)	20	20	71.5	68.4	71.5	2023	No	Road salt, water treatment chemicals, water softners, and sewage effluents.
<b>Nitrates</b>								
Nitrates (ppm)	10	10	<0.08	<0.08	<0.08	2023	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Nitrites (ppm)	1	1	<0.02	<0.02	<0.02	2023	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrates-Nitrites (ppm)	10	10	<0.1	<0.1	<0.1	2023	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

<u>Contaminants</u>	<u>MCLG</u>	<u>AL</u>	<u>Your Water</u>	<u>Sample Date</u>	<u># Samples Exceeding AL</u>	<u>Exceeds AL</u>	<u>Typical Source</u>
<b>Inorganic Contaminants</b>							
Lead - action level at consumer taps (ppb)	0	15	1	2022	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Copper - action level at consumer taps (ppm)	1.3	1.3	0.4	2022	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
<b>Unit Descriptions</b>							
<b>Term</b>			<b>Definition</b>				
ppm			ppm: parts per million, or milligrams per liter (mg/L)				
ppb			ppb: parts per billion, or micrograms per liter (µg/L)				
NA			NA: not applicable				
ND			ND: Not detected				
NR			NR: Monitoring not required, but recommended.				
pCi/L			Picocuries per liter is a measure of radioactivity on water.				
<b>Important Drinking Water Definitions</b>							
<b>Term</b>			<b>Definition</b>				
MCLG			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			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			TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.				
AL			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			Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.				
MRDLG			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			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			MNR: Monitored Not Regulated				
MPL			MPL: State Assigned Maximum Permissible Level				

**For more information please contact:**

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Please note this report will not be mailed to each customer. A copy of this report is available at the Utility Department office located at 133 North Front Street.