

2024 Annual Drinking Water Quality Report
Town of Shuqualak
PWS#: 0520008
May 2025

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 ensuring the quality of your water.

About Our System

The Town of Shuqualak has two (2) permitted wells and one (1) elevated tank. Well #1 is 1546 feet deep in Gordo Aquifer. Well #2 is 2136 feet deep in the Massive Sand Aquifer. All water is treated with chlorine to prevent bacteriological contamination. See BACTI results in the consumer confidence report packet. Our system is capable of producing 500 GPM and servicing over 400 households. Our system currently has one (1) backup generator and we are in the process of installing a 2nd backup generator to provide alternate power.

We recently added supervisory control data acquisition (SCADA) to monitor, run and collect information regarding the systems operations. We recently sandblasted, cleaned and disinfected; and repainted the elevated tank which has a 100,000 gallon capacity. Additionally, we upgraded the internal workings of the tank by moving the overflow pipe outside of the riser and added a pressure level transducer to replace the old probe and float technology.

The town implemented a rate increase for commercial water users and we plan to evaluate a rate increase for residential customers in the future.

Contact & Meeting Information

If you have any questions about this report or concerning your water utility, please contact Dr. Velma H. Jenkins, Mayor at 662.793.4675. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the first Tuesday of each month at 6:00 PM at the Town Hall.

Source of Water

Our water source is from wells drawing from the Gordo Formation and Massive Sand 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 Shuqualak have received lower susceptibility rankings to contamination.

Period Covered by Report

We routinely monitor for contaminants in your drinking water according to federal and state laws. This report is based on results of our monitoring period of January 1st to December 31st, 2024. In cases where monitoring wasn't required in 2024, the table reflects the most recent testing done in accordance with the laws, rules, and regulations.

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.

Terms and Abbreviations

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

Action Level (AL) : The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

LSLI: Lead Service Line Inventory

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.

Non-Detects: (ND): laboratory analysis indicates that the contaminate is not present

Parts per billion (ppb) or micrograms per liter: one part by weight of analyte to 1 billion parts by weight of the water sample.

Parts per million (ppm) or Milligrams per liter (mg/l): one part by weight of analyte to 1 million parts by weight of the water sample.

RAA: Running Annual Average

TEST RESULTS								
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measure -ment	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants – Salts and metals which can occur naturally in the soil or groundwater or may result from urban stormwater runoff. Industrial or domestic wastewater discharges, oil and gas production, mining, or farming.								
8. Arsenic	N	2022*	5.6	1.5 – 5.6	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
10. Barium	N	2022*	.531	.215 - .531	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2022*	.5	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2021/23*	.3	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2022*	.796	.205 - .796	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2021/23*	4	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
21. Selenium	N	2022*	9.5	3.8 – 9.5	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	N	2022*	107	104 - 107	ppm	20		Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Disinfection By-Products – Substances formed when disinfectants, like Chlorine, used to treat drinking water react with naturally occurring materials in the water.								
81. HAA5	N	2024	1.27	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2024	6.5	No Range	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2024	1.2- RAA	.5 – 1.87	mg/l	0	MDRL = 4	Water additive used to control microbes

* Most recent sample. No sample required for 2024.

Sodium. EPA recommends that drinking water sodium not exceed 20 milligrams per liter (mg/L). Excess sodium from salt in the diet increases the risk of high blood pressure and cardiovascular disease.

TEST RESULTS – 2024 Non Detected Contaminates								
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL/MRDL	Unit Measure -ment	MCLG	MCL	Likely Source of Contamination

Inorganic Contaminants – Salts and metals which can occur naturally in the soil or groundwater or may result from urban stormwater runoff. Industrial or domestic wastewater discharges, oil and gas production, mining, or farming.								
19. Nitrate (as Nitrogen)	N	2024	ND		ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
20. Nitrite (as Nitrogen)	N	2024	ND		ppm	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

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.

LEAD EDUCATIONAL STATEMENT

Lead can cause serious health problems, especially for pregnant women and your 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 and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact our water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure are available at <https://www.epa.gov/safewater/lead>. The MS Public Health Laboratory (MPHL) can provide information on lead and copper testing and/or other laboratories certified to analyze lead and copper in drinking water MPHL can be reached at 601.576.7582.

Our system has completed the Lead Service Line Inventory, and no lead lines were found. The methods used to make that determination were visual inspections, water operator knowledge and archived records. This inventory report is available for viewing at our office upon request.

VIOLATIONS

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.

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 microbiological contaminants are available from the Safe Drinking Water Hotline 1.800.426.4791.

The Town of Shuqualak 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.