

VILLAGE OF LOGAN
2022 Annual Drinking Water Quality Report Published in 2023

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.

Where does my water come from?

Our water source is ground water that comes from 6 wells located in Quay County. The water wells obtain the water from under ground at a depth of 110 feet. Well capacities range from 200 gallons per minute (gpm) to 300 gpm.

We have a Source Water Assessment Plan (SWAPP) available from our office that provides more information such as potential sources of contamination. The Water System Water Sanitary Survey Report is available at the Village of Logan Office.

The Logan Water System is well maintained and operated, and sources of drinking water are generally protected from potential sources of contamination based on well construction, hydrogeologic settings, and system operations and management. The susceptibility rank of the entire water system is **High**. Please contact the Logan Water System to discuss the findings of the SWAPP report.

Table 8	SOURCE SUSCEPTIBILITY RANKING				
SOURCE NAME	Sensitivity Rank	Vulnerability Rank	Susceptibility Rank	Operational Exceptions	Final Rank
GOGGINS WELL	Moderately Low	Low	Moderately Low	-	Moderately Low
HARDING WELL 1	Moderately Low	Low	Moderately Low	Land Use	Moderate
OSBORNE WELL 3	Moderately Low	High	Moderately High	-	Moderately High
SMITH WELL 6	Moderately Low	High	Moderately High	3 PSOC ¹ ; Land Use	High
DISASTER WELL 7	Moderately Low	High	Moderately High	3 PSOC	High

¹Potential source of contaminants

If you have any questions about this report or concerning your water utility, please contact **Rodney Paris, Village Administrator at the Village Office (575-487-2239)**. 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 2nd Tuesday following the 1st Monday of each month at 4:30.

The Village of Logan routinely monitors for constituents in your drinking water according to Federal and State laws. The table below shows the results of our monitoring for the period of **January 1st to December 31st, 2022**. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that

the presence of these constituents does not necessarily pose 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:

Not Applicable (NA)

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

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

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) – nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NUT is just noticeable to the average person.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

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

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

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 or MRDL - 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.

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.

MPL: State Assigned Maximum Permissible Level

MNR: Monitored, not regulated

TEST RESULTS							
Contaminant (Unit Measurement)	Violation Y/N	Your Water	Date Tested	Range of Detection	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants Tested Every Month							
1. Total Coliform Bacteria	N	ND	Monthly	NA	0	1 positive per month	Naturally present in the environment
2. Chlorine Residual (ppm)	N	1.49	2022	0.3-1.49	MRDLG = 4	MDRL = 4	Water additive used to control microbes
Radioactive Contaminants							
3. Beta/photon emitters (pCi/L)	N	3.2	2021	3.2	0	50	Decay of natural and man-made deposits. The U.S. EPA Considers 50 pCi/L to be the level of concern for Beta Particles.
4. Alpha particles (pCi/l)	N	3.8	2021	2.5-3.8	0	15	Erosion of natural deposits
5. Combined Radium 226/228 (pCi/l)	N	1.65	2021	1.58-1.65	0	5	Erosion of natural deposits
6. Combined Uranium (ppb)	N	0	2021	0	0	30	Erosion of natural deposits
Inorganic Contaminants							
7. Arsenic (ppb)	N	ND	2020	ND	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
8. Barium (ppm)	N	.030	2020	.030	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
9. Chromium (ppb)	N	ND	2020	ND	100	100	Discharge from steel and pulp mills; erosion of natural deposits
10. Copper (ppm)	N	90 th Percentile = 0.06	2020	ND - .08	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
11. Fluoride (ppm)	N	0.42	2020	0.42	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
12. Nitrate (as Nitrogen) (ppm)	N	2.30	2022	ND-2.30	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
12. Selenium (ppb)	N	ND	2020	ND	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
13. Lead (ppb)	N	90 th Percentile = ND	2020	ND - .002	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits
14. Sodium (ppm)	N	64	2015	64	NA	MPL	Erosion of natural deposits; Leaching
15. Nickel (ppb)	N	ND	2015	ND	NA	NA	Erosion of natural deposits
Disinfectant Byproducts							
16. TTHM (Total trihalomethanes) ppb	N	4.2	2022	1.5-4.2	NA	80	Byproduct of drinking water chlorination
17. HAA5 (Haloacetic acids) ppb	N	1.9	2022	0-1.9	NA	60	Byproduct of drinking water chlorination

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. It also may pick up the following substances that result 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, urban storm water 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 a 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.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general populations. Immuno-compromised 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).

Other Information About Your Water System:

Total Coliform: The Total Coliform Rule requires water systems to meet a stricter limit for coliform bacteria. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests

are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public by newspaper, television or radio. To comply with the stricter regulation, we have increased the average amount of chlorine in the distribution system.

Nitrates: As a precaution we always notify physicians and health care providers in this area if there is ever a higher than normal level of nitrates in the water supply.

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 Logan 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>.

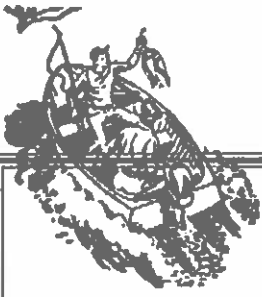
Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding.

Monitoring and Reporting of Significant Deficiencies

We are required to monitor your drinking water specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During November of 2022 we failed to conduct required source water monitoring within the designated timeframe, following a Total Coliform-positive sample and, therefore, cannot be sure of the quality of our drinking water during that time. This was resolved immediately after receiving notice and the issue is resolved.

Please call Rodney Paris at 575-487-2239, if you have questions.

We at the Village of Logan work 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.



Village of Logan
Gateway to Ute Lake

Village Office (575) 487-2234
or (575) 487-2239

Police Dept (575) 487-2216

P.O. Box 7

Motor Vehicle (575) 487-2815
Office

Logan, New Mexico 88426

PUBLIC NOTICE

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER Monitoring Requirements Not Met For Logan Water System

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda

Our water system violated drinking water requirements over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we are did to correct these situations.

We are required to monitor your drinking water specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During November 2022 we failed to conduct required source water monitoring within the designated timeframe, following a Total Coliform-positive sample and, therefore, cannot be sure of the quality of our drinking water during that time.

What should you do?

There is nothing you need to do at this time.

What does this mean?

One requirement of public water systems is the periodic monitoring of tap water for the presence of bacterial contaminants. Whenever our water system has a routine Total Coliform-positive sample, we are required by law to conduct source water monitoring within 24 hours of notification. Following a Total Coliform-positive sample on November 22, 2022 we did not collect the required source water samples within the timeframe designated by the state. Therefore, we cannot be sure of the quality of your drinking water during that time.

What happened? What is being done?

Received a positive Total Coliform sample. Water samples were re-taken and sent off for testing, which came back negative

Date that the system expects to come back into compliance: 11/22/22

(Note: Return To Compliance is achieved once the system conducts triggered source water monitoring of each of the groundwater sources in use at the time of the Total Coliform Positive)

Rodney

For more information, please contact Paris at 575-487-2239 or PO Box 7, Logan, NM 88426.

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