



Village of Ruidoso New Mexico
Water Department
313 Cree Meadows Drive
Ruidoso, NM
88345

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RUIDOSO UTILITIES - WATER MANAGEMENT



Is my water safe?

The water delivered to the residents of Ruidoso in 2016 was safe and in compliance with safe drinking water standards. 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?

Water supply for the Village is derived from a combination of surface-and-ground water sources in the Rio Ruidoso and Eagle Creek watersheds. Consequently, the Village's ability to produce surface water from these sources is greatly affected by temperature and precipitation and can significantly change from year to year.

How can I get involved?

For concerns or questions regarding your drinking water, please contact the Village of Ruidoso Water Production Department at (575) 257-5525, or reply by mail at 313 Cree Meadows Drive Ruidoso, NM 88345

Source water assessment and its availability

A source water assessment was completed in 2005. Building on that, a source water protection plan was prepared by the Village of Ruidoso in conjunction with the New Mexico Environment Department Drinking Water Bureau and was completed in 2014. A copy of the Source Water Protection Plan is available on the Village of Ruidoso's website (www.ruidoso-nm.gov). In addition to establishing measures to monitor and protect Ruidoso's sources of drinking water, this plan also assembles valuable information about Ruidoso's hydrogeology and water sources into a single document that can serve as an important reference in the future.

Monitoring and Reporting of compliance data violations

Our water system violated a drinking water standard in 2016. Although this is not an emergency, as our customers, you have a right to know what happened, what you should do, and what we are doing.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. Ruidoso Water System is required to submit a report of the monthly disinfectant residuals to the New Mexico Environment Department Drinking Water Bureau (NMED DWB). Ruidoso Water System did not meet the monitoring and reporting requirements for this drinking water regulation in June 2016. This resulted in a violation. The following month all disinfectant residuals were completed and the Village of Ruidoso (VOR) water system was back in compliance.

In April 2016 the VOR water system received a violation for not completing all monitoring requirements for Total Coliform. In the following month the Total Coliform samples were completed and the VOR water system was back in compliance.

In July 2016 the VOR water system received a violation for sampling Revised Total Coliform Rule (RTCR) sampling plan errors. On August 12, 2016 a revised RTCR sitting plan was submitted to NMED and was approved on 8/31/2016 and the VOR water system was back in compliance.

In May, June, and December 2012 & 2013, the VOR water system received 7 violations for not submitting a Public Notice for low chlorine at the Grindstone plant, Alto plant, and in the distribution system. The VOR water system is back in compliance with these violations and is working with NMED to close out the violations from 2012 & 2013.



RUIDOSO UTILITIES - WATER MANAGEMENT

2016 Consumer Confidence

WATER REPORT

Description of Water Treatment Process

Your water is treated in a “treatment train” (a series of processes applied in a sequence) that includes coagulation, flocculation, sedimentation, filtration, and disinfection. Coagulation removes dirt and other particles suspended in the source water by adding chemicals (coagulants) to form tiny sticky particles called “floc,” which attract the dirt particles. Flocculation (the formation of larger flocs from smaller flocs) is achieved using gentle, constant mixing. The heavy particles settle naturally out of the water in a sedimentation basin. The clear water then moves to the filtration process where the water passes through sand, gravel, charcoal or other filters that remove even smaller particles. A small amount of chlorine or other disinfection method is used to kill bacteria and other microorganisms (viruses, cysts, etc.) that may be in the water before water is stored and distributed to homes and businesses in the community.

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 such as: microbial contaminants, including 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.

Source Water Protection Tips

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 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.

Water Conservation Tips

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.
- Water plants only when necessary.
- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If 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.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month’s water bill!
- Visit www.epa.gov/watersense for more information.

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 not be feasible, 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.

| Contaminants | MCLG or MRDLG | MCL, TT, or MRDL | Detect In Your Water | Range | | Sample Date | Violation | Typical Source |
|--|---------------------|------------------------|-------------------------------|----------------|------------------------------|----------------|--|--|
| | | | | Low | High | | | |
| Disinfectants & Disinfection By-Products | | | | | | | | |
| | | | | | | | | |
| Contaminants | MCLG or MRDLG | MCL, TT, or MRDL | Detect In Your Water | Range | | Sample Date | Violation | Typical Source |
| | | | | Low | High | | | |
| (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants) | | | | | | | | |
| Chlorine (as Cl2) (ppm) | 4 | 4 | 1.3 | 0.6 | 1.3 | 2016 | No | Water additive used to control microbes |
| Haloacetic Acids (HAA5) (ppb) | NA | 60 | 51.1 | 5.7 | 78.4 | 2016 | No | By-product of drinking water chlorination |
| TTHMs [Total Trihalomethanes] (ppb) | NA | 80 | 79 | 17.1 | 98.7 | 2016 | No | By-product of drinking water disinfection |
| Inorganic Contaminants | | | | | | | | |
| Barium (ppm) | 2 | 2 | .052 | .021 | .052 | 2016 | No | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| Fluoride (ppm) | 4 | 4 | 0.7 | 0.21 | 0.7 | 2016 | No | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Nitrate [measured as Nitrogen] (ppm) | 10 | 10 | 3 | 0 | 2.5 | 2016 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Selenium (ppb) | 50 | 50 | 0 | NA | NA | 2016 | No | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines |
| Microbiological Contaminants | | | | | | | | |
| Turbidity (NTU) | NA | 0.3 | 100 | NA | NA | 2016 | No | Soil runoff |
| 100% of the samples were below the TT value of .3. A value less than 95% constitutes a TT violation. The highest single measurement was .34. Any measurement in excess of 1 is a violation unless otherwise approved by the state. | | | | | | | | |
| Radioactive Contaminants | | | | | | | | |
| Beta/photon emitters (pCi/L) | 0 | 50 | 7.5 | 1.1 | 7.5 | 2013 | No | Decay of natural and man-made deposits. |
| Radium (combined 226/228) (pCi/L) | 0 | 5 | 0.82 | 0.1 | 0.82 | 2013 | No | Erosion of natural deposits |
| Uranium (ug/L) | 0 | 30 | 2 | NA | NA | 2013 | No | Erosion of natural deposits |
| Contaminants | MCLG | AL | Your Water | Sample Date | # Samples Exceeding AL | Exceeds AL | Typical Source | |
| Inorganic Contaminants | | | | | | | | |
| Copper - action level at consumer taps (ppm) | 1.3 | 1.3 | 0.25 | 2014 | 1 | No | Corrosion of household plumbing systems; Erosion of natural deposits | |
| Inorganic Contaminants | | | | | | | | |

| Contaminants | MCLG | AL | Your Water | Sample Date | # Samples Exceeding AL | Exceeds AL | Typical Source |
|--|------|----|------------|-------------|------------------------|------------|--|
| Lead - action level at consumer taps (ppb) | 0 | 15 | 8.5 | 2014 | 2 | No | Corrosion of household plumbing systems; Erosion of natural deposits |

| Unit Descriptions | |
|-------------------|--|
| Term | Definition |
| ug/L | ug/L : Number of micrograms of substance in one liter of water |
| ppm | ppm: parts per million, or milligrams per liter (mg/L) |
| ppb | ppb: parts per billion, or micrograms per liter (µg/L) |
| pCi/L | pCi/L: picocuries per liter (a measure of radioactivity) |
| NTU | NTU: Nephelometric Turbidity Units. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. |
| NA | NA: not applicable |
| ND | ND: Not detected |
| NR | NR: Monitoring not required, but recommended. |

| Important Drinking Water Definitions | |
|--------------------------------------|---|
| Term | Definition |
| 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 |

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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. Village of Ruidoso 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>.

