

THREE MILE WATER DISTRICT
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2018 Annual Drinking Water Report

We are pleased to present this year's annual drinking water report! The Safe Drinking Water Act (SDWA) requires that water utilities issue an annual Consumer Confidence Report (CCR) such as this one, to customers in addition to other notices that may be required by law. This CCR details where our water comes from, what it contains, and any risks our water testing and treatment are designed to prevent. In this report, you will see that sampling and testing have been conducted year around and results have been gathered to inform you the customer, about your drinking water. We hope this information will aid you and help you better understand your Water System.

WHERE OUR WATER COMES FROM

Drinking water can come from many sources. Surface water comes from sources such as Lakes, Rivers, and even oceans or rain. Ground Water comes from sources below the ground such as wells and springs. Our drinking water comes from two independent wellfields, with a total of 11 active wells that are owned, operated, and maintained by the Three Mile Water District (TMWD). One well field is comprised of five (5) wells near Oxford Rd. and the other one has six (6) wells located in the Moyie canyon.

POSSIBLE CONTAMINANTS IN GROUND WATER

Normally ground water sources contain minerals, but they can also have metals, chemicals, and even radioactive materials in them. Wastes from animal and human activity can contaminate groundwater sources that are unconfined. Contaminants are the things that are carried by, dissolved by, or absorbed into pure water. Ground water can even be contaminated if the area above the groundwater is remote and relatively free from human activity. If the ground water source is unconfined materials dumped or buried on the land above a groundwater source can move through the soil and end up in the groundwater source. Contaminants introduced into nearby lakes, rivers, and streams can seep or enter into unconfined groundwater sources also.

Minerals and Metals – Usually naturally occurring like calcium, manganese, and ferrous iron, but can also be artificially introduced through the use of Road salts which are used in the wintertime to melt ice on roads to keep cars from sliding around. When the ice melts, the salt gets washed off the roads and could eventually end up in the groundwater.

Microbial Elements – Such as bacteria, viruses, or protozoa are usually single-cell creatures that for the most part, naturally occurring and harmless to humans, but may be harmful if originating from septic systems, livestock operations or wildlife.

Pesticides & Herbicides – May come from home and agricultural overuse, can seep into ground water.

Radioactive Elements – Are naturally occurring elements

Organic Chemical Elements – Are usually man-made (synthetic) and vaporize easily (volatile). Petroleum products & degreasers are examples of gas station and/or dry cleaner waste improperly disposed of that seep into the ground. Over use of herbicides can also introduce chemicals into the ground water.

HOW TMWD INSURES OUR GROUND WATER IS POTABLE

To help ensure the delivery of safe drinking water to customers, TMWD only pumps water from two separate aquifers confined deep in the ground. Since the aquifers are confined, they are not under the direct influence of surface water which contains harmful microbial contaminants, so we do not need to use chlorine for disinfection. Our water is treated with natural air to remove corrosivity(carbonation) which can cause lead and copper to leach from old fixtures such as sink faucets and lead soldered pipes. We also continually conduct samples of the water to ensure it meets drinking water standards before it is served to anyone. Throughout the distribution system, the water is monitored by measuring instruments and controls to ensure water is being safely delivered to you. If at any time the water quality does not meet minimum standards, we will notify you, our customers of the event(s).

WATER QUALITY SAMPLING

Water quality sampling is conducted throughout the water distribution system to proportionately gauge the quality of the water we serve all the way to your water tap. Tests and samples are performed consistently depending on the needs and requirements outlined in SDWA and Operation & Maintenance procedures specific to our water system. Some tests and samples are performed daily, most weekly, monthly, quarterly, yearly, or by a frequency specified by the Idaho Department of Environmental Quality (DEQ) and the United States Environmental Protection Agency (US EPA).

THE U.S. EPA AND YOUR WATER...

The US EPA sets standards for our drinking water quality. These standards are regulations that the US EPA sets to control the level of acceptable contaminants in the nation's drinking water. These standards include assessing and protecting water sources, protection of wells and collection systems, ensuring qualified operators treat water, ensuring the integrity of the distribution system, and making information available to the public on the quality of our drinking water. We treat our water according to both DEQ and U.S. EPA's regulations. The U.S. FDA regulates interstate bottled water.

SAMPLING FOR CONTAMINANTS

Over the years we have sampled for many different contaminants and have found very little (if any) contaminants. On the page 4 there is a chart of the testing and sample results we have performed in our drinking water system within the last two (2) years. You may notice by looking at the chart that these samples and test results not only meet, but exceed current water quality standards. Keep in mind that it is to be expected to find at least small amounts of some contaminants. Even bottled drinking water may contain small amounts of contaminants. In many parts of the country the 'tap' water is actually more 'pure' than bottled water. Also keep in mind that the presence of contaminants does NOT necessarily indicate a health risk. The following section details the types of contaminants source water and drinking water may contain.

SAMPLING FOR BACTERIA, VIRUSES, AND PROTOZOA

Along with many tests, we sample for coliform bacteria. Coliform bacteria are a range of indicator microorganisms that should not be present in drinking water. The presence of these bacteria in drinking water indicate the possibility of other dangerous microorganisms or viruses that can cause severe illness in humans.

WHAT IF I HAVE SPECIAL HEALTH CONCERNS?

Some people may be more vulnerable to contaminants in drinking water than the general population. Examples would be people who are immune-compromised, undergoing chemo therapy, people who have had organ transplants, people with HIV or AIDS or other immune disorders. Some elderly people and infants can be particularly at risk from infections or other problems. These people should seek advice about drinking water from their health care providers. U.S. EPA/CDC guidelines on appropriate means to lessen the risk of infections by Crypto Sporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791

WATER USE EFFICIENCY

All water systems are now required to use water in an efficient manner. This means gauging the water pumped from the ground vs. the water used by our customers. We are at about 95% of knowing where our water goes. The remaining 5% of the water we pump into our system is not accounted for. There are many reasons of how and why water is lost in the water system. Leaks, old water meters, non-metered water connections, fire hydrant use, and water theft. We strive to make sure everything is metered, leaks are fixed in a timely manner, and policies are put into place to help circumvent theft. More information can be obtained about this by calling 304-5627 or the EPA's Safe Drinking Water Hotline (800) 426-4791

PUBLIC PARTICIPATION AND INVOLVEMENT

We encourage you to get involved with your publicly owned water district. The Three Mile Water District holds monthly board meetings where I as your Certified Water Operator give monthly reports and present current and future water projects, as well as information about the current state of our water system. Board meetings are the best way to directly get involved in the activities of our water system. Outside the monthly Board meetings, you can contact the TMWD for answers to questions, comments, or to help please call the Youngworth Davis and Associates office at 267-5166.

COMPLIANCE VIOLATIONS

We strive to ensure that we are delivering quality potable water to our customers. However, it is also our duty to inform you the customer about any violations. Within the Calendar year of 2017, our water system received no violations.

CONTAMINANT DETECTION, DETECTION LIMITS, AND VIOLATIONS

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 within two (2) calendar years of this report. 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.

Water Quality Data Table

2017 Coliform Monitoring				
Contaminants	Total samples taken in 2017	Total Positive samples in 2017	Violation	Typical Source
Total Coliform	24	2	No	Naturally present in the environment
Fecal Coliform	24	0	No	Found in Human and Animal waste

2017 Chemical/Radiation Monitoring				
Contaminants	Total samples taken in 2017	Highest sample concentration	Violation	MCL
Nitrate	2	0.77 MG/L	No	10.0 MG/L

2016 Chemical/Radiation Monitoring				
Contaminants	Total samples taken in 2017	Highest sample concentration	Violation	MCL
Nitrate	2	0.77 MG/L	No	10.0 MG/L
Sodium	2	7.77 PPM	NA	The containment has no MCL because it is not health threatening
Gross Alpha (excluding Radon & Uranium)	1	0.138 PCI/L	No	15 pCi/L
Gross Alpha (including Radon & Uranium)	1	0.138 PCI/L	No	15 pCi/L
Combined Uranium	1	ND	No	30 PPB
Radium 228	1	ND	No	5 pCi/L

IMPORTANT TERMS AND ABBREVIATIONS DEFINED

Unit Descriptions	
Term	Definition
Positive samples/month	The number of samples taken monthly that were found to be positive
NA	Not Applicable
ND	Not Detected
NR	Monitoring not required, but recommended
PPM	Parts of contaminants per million parts of water
PPB	Parts of contaminants per billion parts of water
pCi/L	picoCuries per liter of water. A Curie is a unit of radioactivity equivalent to 1 gram of radium and the prefix “pico” means a trillionth.

Important Drinking Water Definitions	
Term	Definition
MCLG	Maximum Contaminant Level Goal (MCLG): 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	Maximum Contaminant Level (MCL): 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	Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
AL	Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variations and Exemptions	Variations and Exemptions are granted by the State or EPA, giving permission not to meet an MCL or a TT under certain conditions.
MRDLG	Maximum residual disinfection 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.
MRDL	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 for control of microbial contaminants.
MNR	Monitored Not Regulated (MNR): The State or EPA doesn't regulate monitoring of the material
MPL	State Assigned Maximum Permissible Level (MPL)

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 five (5) minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut of 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 <http://www.epa.gov/watersense> for more information.

CROSS CONNECTION CONTROL SURVEYS

The purpose of this survey is to determine whether a cross-connection may exist at your home or business. A cross connection is an unprotected or improper connection to a public water distribution system that may cause contamination or pollution to enter the system. We are responsible for enforcing cross-connection control regulations and insuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below please contact us so that we can discuss the issue, and if needed, survey your connection and assist you in isolating it if that is necessary.

- Boiler/ Radiant heater (water heaters not included)
- Underground lawn sprinkler system
- Pool or hot tub (whirlpool tubs not included)
- Additional source(s) of water on the property
- Decorative pond
- Watering trough

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.

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 Three Mile Water District 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>.

For more information please contact:

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