

## Keywords

- \* **Non-Detected (ND)** - Laboratory analysis indicates that the substance was not detected above the laboratory detection limit
- \* **Parts per million (ppm) or milligrams per liter (mg/l)** - One part per million corresponds to one minute in two years; a single penny in \$10,000; or one half of an aspirin tablet in a full bathtub of water (approximately 50 gallons)
- \* **Parts per billion (ppb)** - One part per billion corresponds to one minute in 2,000 years or a single penny in \$10 million
- \* **Action Level (AL)** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements for a water system
- \* **Maximum Contaminant Level (MCL)** - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as feasible using the best available treatment technology
- \* **Maximum Contaminant Level Goal (MCLG)** - The level of a contaminant in drinking water below which there is no known or expected risk to health



## Information on Detected Substances

Substances listed below were detected above laboratory detection limits on the dates indicated and all are below levels allowed by federal and state agencies

Substance	Lowest Amt. Detected	Highest Amt. Detected	Lab Detection Limit	MCL	MCLG	Likely Source of Substance
<b>Nutrients</b>						
Nitrate (mg/L)	ND	<0.1 9/10/2019	0.5	10.0	10.0	Erosion of natural deposit, runoff from fertilizer
<b>Inorganic Chemicals</b>						
Lead (mg/L)	ND	.00594 8/6/2017	0.001	TT <sup>(1)</sup> ; AL = 0.015	0.0	Corrosion of household plumbing systems; erosion of natural deposits
Copper (mg/L)	ND	.229 8/6/17	0.001	TT; AL = 1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits
Arsenic (mg/L) <sup>(2)</sup>	ND	ND 5/2/18	0.001	.010	0.0	Naturally occurring element in the earth's crust

In 2019, there were 159 coliform (bacteriological) tests done throughout the campus and all came back negative. Now that we chlorinate, daily chlorine readings are taken at random sites around campus to ensure we have at least a trace of chlorine in all buildings. In August of 2017, 30 buildings on campus were tested for lead and copper and all tests came back below DOH Action Levels (AL). Next test is August - 2020.

Samples were also analyzed for unregulated contaminants according to EPA's Unregulated Contaminant Monitoring Rule 4 (UCMR 4). All tests either ND or below EPA action levels

Eastern Washington University is pleased to report that our water meets or exceeds all standards set for quality and safety. We are committed to providing you with safe, high quality water, and we want you to understand the efforts we make to continually protect our water resources. This brochure is a summary of the quality of water provided in 2019. Included are analytical test results and information on how these results compare to federal safety standards.

*It is important to remember* that the presence of these substances does not necessarily pose a health risk. However, some people may be more vulnerable to substances in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk for 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 microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791.

<sup>(1)</sup> TT is the abbreviation for Treatment Technique. Lead and copper are regulated by a treatment technique that requires systems to control the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water systems must take additional steps. For example, the action level is 1.3 mg/L for copper, and 0.015 mg/L for lead

<sup>(2)</sup> While your drinking water does contain low levels of arsenic, it currently meets EPA's revised water standard for arsenic. There is a small chance that some people who drink water containing low levels of arsenic over many years could develop circulatory disease, cancer, or other health problems. Most types of cancer and circulatory diseases are due to factors other than exposure to arsenic. EPA's standard balances the current understanding of arsenic's health effects against the cost of removing arsenic from the water.



## Origin of Our Water

EWU provides drinking water from two drilled wells that both come from a groundwater aquifer. Well 1R is located in the Plant Utilities building and pumps up to 450 gallons per minute at a depth of 834 feet. Well 2R produces 900 gallons per minute at a depth of 1145 feet.

Our water on campus has been chlorinated since 2010. Beginning in 2016, water from both wells travels through a new chlorine building where it is treated, then to the tower where it is distributed throughout campus.

To ensure your tap water remains safe to drink, there are 375 backflow assemblies installed to protect our water system. A Cross Connection Control Specialist and four Backflow Assembly Testers, employed by the university, perform tests on all assemblies and repair/replace as required annually. A report is submitted to the Department of Health yearly.



## Safe Drinking Water Act

The Safe Drinking Water Act, requires all public water systems to issue an annual report explaining what substances are in the water and in what amounts.

The U.S. Environmental Protection Agency (EPA) and the Washington State Department of Health set standards for the amounts of various substances that are acceptable for drinking water safety. Eastern Washington University tests frequently for the presence of these substances.



## Substances in the Water

As water travels through the ground, it dissolves naturally occurring minerals and can pick up substances from the presence of animal or human activity. It can be reasonably expected that all drinking water, including bottled drinking water, may contain at least small amounts of some substances.

## Frequently Asked Questions

### *What causes discolored water?*

Rusting galvanized pipe in some plumbing is usually the cause of discolored water. If this is the case, the water clears after running a bit. Discolored water may indicate the presence of iron and/or elevated levels of lead and copper.

### *How often is the water tested?*

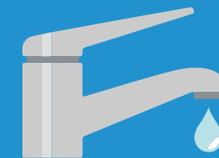
EWU tap water is tested every month for bacteria, and as directed by the Department of Health, for copper and lead as well. Every building on campus is tested for bacteria at least twice a year. The last lead/copper test was done in August of 2017 and all tests were below DOH Action Levels. Since we chlorinate, we also test for disinfection byproducts. We tested four times in 2019 and all came back within DOH parameters. At this time all tests are up to date with Department of Health Regulations.



*If you have any questions about your water or about this report, contact one of the following:*

- \* *Jim Butler, Water System Manager - (509) 359-6561*
- \* *See this report on the web at <https://rebrand.ly/bybi2qp>*
- \* *EPA Safe Drinking Water Hotline - (800) 426-4791*

*We encourage you to become informed and involved in water protection. Water system tours can also be arranged by calling: (509) 359-2245*



# 2019 Annual Drinking Water Report



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