

WATER QUALITY DATA TABLE

| Inorganic Contaminants |      |     |               |                    |  |             |
|------------------------|------|-----|---------------|--------------------|--|-------------|
| Detected Compounds     | MCLG | MCL | Highest Level | Range of Detection | Typical Sources  | Sample Date |
| Fluoride (ppm)         | 4    | 4   | 2.80          | 0.26 - 2.80        | Naturally present in the environment. We do not add fluoride to the drinking water. Fluoride was found in the Central, Knolls Vista, Montlake and Wheeler zones within allowable levels. | 2014 - 2017 |
| Nitrate (ppm)          | 10   | 10  | 5.24          | ND - 5.24          | Naturally present in the environment. Nitrate was detected in the Lakeview, Wheeler and Larson zones within allowable levels.  | 2017        |

UNIT DESCRIPTIONS

mg/L: number of milligrams of substance in one liter of water  
ppm: parts per million, or milligrams per liter  
ppb: parts per billion, or micrograms per liter  
N/A: not applicable  
ND: not detected

IMPORTANT DRINKING WATER DEFINITIONS

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: Maximum Contaminant Level: This highest level of a contaminant that is allowed in drinking water. MCLs are set as close as feasible using the best available treatment technology.  
N/A: Not Applicable  
ppm: parts per million, or milligrams per liter (mg/L). The equivalent of one second in 12 days.  
ppb: parts per billion, or micrograms per liter (ug/L). The equivalent of one second in 32 years.

LEAD & COPPER — Samples were taken from 31 homes

| Contaminant | Year of Testing | Measure | 90th Percentile | # of Sites Exceeding Action Level | Action Level | Common Sources of Substance  |
|-------------|-----------------|---------|-----------------|-----------------------------------|--------------|--|
| Lead        | 2017            | ppb     | .3780           | 0                                 | 15 ppb       | Corrosion of household plumbing systems; erosion of natural deposits |
| Copper      | 2017            | ppm     | 0.03550         | 0                                 | 1.3 ppm      |  |

**90th Percentile Value:** 90% of the samples were at or below this value. EPA considers the 90th percentile value the same as an average value for other contaminants. 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.

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

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 City of Moses Lake Water Division 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 (800-426-4791)** or at <http://www.epa.gov/safewater/lead>.

WAIVERS

The State Department of Health automatically grants sampling waivers for many of our sources. The City of Moses Lake Water Division takes samples from the wells in accordance to EPA and Washington State Department of Health, Office of Drinking Water regulations.

pH Levels range from 8.0 to 8.5



2017 | WATER QUALITY REPORT

HEALTH INFORMATION

PROVIDED BY THE EPA

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 EPA's Safe Drinking Water Hotline **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 microbial contaminants are available from the Safe Drinking Water Hotline **800.426.4791**.

YOUR DRINKING WATER

This report is provided to you to help you make informed decisions about the water you drink and to encourage you to get involved in protecting and improving your drinking water resource. The report tells you the source of the water we provide, the quality of the water, and who makes the management decisions. The report is required by the Federal Clean Water Act, which refers to it as the Consumer Confidence Report. As the water system's certified operator, I encourage you to call us with any concerns you have. Our goal is to provide you with fast, friendly, helpful, and efficient service.

**Chad Strevy**  
Water Division Supervisor / 509.764.3948

IMPORTANT INFORMATION

This is very important information regarding the City of Moses Lake public potable (drinking) water system. You may wish to have this information translated.

Este informe contiene informacion muy importante sobre su agua potable. Traduzcalo ohable con alguien que lo entienda bien.

В этом сообщении содержится важная информация о воде, которую вы пьёте. Попросите кого-нибудь перевести для вас это сообщение или поговорите с человеком, который понимает его содержание.

このレポートには飲料水に関する重要な情報が記載されています。この英文を訳してもらるか、またはどなたか英語が分かる方にたずねてください。



WATER SOURCE

All but one of our 19 wells draw water from confined aquifers in basalt rock over 205 feet below the ground surface. Well 29, is in an industrial zone, is 135 feet deep, and draws from an alluvial aquifer that is composed of flood deposits. The City of Moses Lake wells have a pumping capacity of approximately 30 million gallons of water per day.

WATER CONSERVATION

Water is one of our most valuable resources. Everyone, including all living creatures, needs water to survive. It’s important to care about and conserve water in easy and practical ways. Household leaks can waste more than 1 trillions gallons of water annually, nationwide. Common types of leaks found inside homes are worn toilet flappers, dripping faucets, and leaking valves. These types of leaks can be easily corrected, using a few tools.

More water saving tips can be found at: <http://epa.gov/watersense>

DRINKING WATER INFORMATION

To ensure that tap water is safe to drink, the Department of Health and EPA prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) and the Washington Department of Agriculture regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

WATER USE EFFICIENCY

In 2003 the State Legislature passed the Municipal Water Law, which directed the Department of Health (DOH) to adopt a rule that establishes Water Use Efficiency (WUE) requirements for all municipal water suppliers. Several components are included, including auditing for leakage, setting WUE goals, and submitting annual reports to the State DOH.

In June 2010, the City Council set a goal to reduce the average residential water usage by 2% before 2015. This goal focuses on customer water use and water savings. All users are encouraged to conserve water in their daily lives. In February 2016, the City Council reset the goal to continue to reduce the average annual consumption per residential connection by 2% by 2022.

WAYS WE’RE WORKING TOWARD USING OUR WATER EFFICIENTLY:

We completed five days of leak detection in a portion of the city in 2017. We will continue to look for and eliminate leaks in our system. The Department of Health goal for unauthorized use is 10% or below. Our system had a 7.1% unauthorized use of water in 2017, which gives us a three year average of 6.8%. We encourage our customers to use water efficiently during their daily routines.

THERMAL EXPANSION

The city installs check valves at the meter on most services. Consumers should be aware that the installation of a check valve results in a closed plumbing system within the premises. Provisions may have to be made by the owner to provide for thermal expansion within the closed system, such as the installation of an approved thermal expansion device.

CONTAMINANT INFORMATION

*Provided by the Environmental Protection Agency (EPA) 40 CFR Part 141*

The sources of drinking water (both tap 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.

Contaminants that may be present in source water include:

**Microbial contaminants** such as viruses and bacteria which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**Inorganic contaminants** such as salts and metals, which can occur naturally 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 various 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. They can also come from gas stations, urban storm water runoff, and septic systems.

**Radioactive contaminants** which can occur naturally or result from oil and gas production and mining activities.



PUBLIC CITY COUNCIL MEETINGS

The public potable water system is owned and operated by the City of Moses Lake. Its direction is provided by the City Council through the City Manager. The City Council meets on the second and fourth Tuesday each month, at 7:00 pm in the Council Chambers in the Civic Center located at 401 S. Balsam. The public is encouraged to attend.

CONTACT PHONE NUMBERS

|  |                       |
|--|-----------------------|
| Water Division .....                     | 509-764-3950          |
| Building Department.....                 | 509-764-3756          |
| City Manager .....                       | 509-764-3701          |
| Water Billing Office.....                | 509-764-3715          |
| After Hours Water Emergencies.....       | 509-762-1160          |
| Grant County Building Department .....   | 509-754-2011          |
| WA State Department of Health .....      | 509-329-2100          |
| US EPA Safe Drinking Water Hotline ..... | 800-426-4791          |
| EPA’s Website .....                      | www.epa.gov/safewater |
| City of Moses Lake Website .....         | www.cityofml.com      |



WATER SERVICE ZONES & HARDNESS

The City of Moses Lake Water system is divided into 6 service zones. The water in each zone is comprised of a combination of the wells in the zone. Hardness levels are listed by wells.

- Central Zone:** Downtown, Peninsula & Westlake Areas Wells 4, 7, 10, 19 & 31 » 16-117 ppm (1-7 gpg)
- Knolls Vista Zone:** Knolls Vista Area Wells 3, 9, 14 & 33 » 54-90 ppm (3-5 gpg)
- Lakeview Zone:** Lakeview Terrace Area Wells 11 & 12 » 21-208 ppm (1-12 gpg)
- Larson Zone:** Grant County Airport Wells 21, 23, 24, 28 & 29 » 58-193 ppm (3-11 gpg)
- Montlake Zone:** Below Division Street Well 8 » 169 ppm (10 gpg)
- Wheeler Zone:** Wheeler Corridor Wells 17 & 18 » 16-166 ppm (1-10 gpg)

WATER HARDNESS RATING

|                        |                 |
|------------------------|-----------------|
| <i>Hardness in ppm</i> |                 |
| 0 — 60.....            | Soft            |
| 61 — 120 .....         | Moderately Hard |
| 121 — 180 .....        | Hard            |
| 181 — Up .....         | Very Hard       |

FLUORIDE

*Secondary Maximum Contaminant Level Exceeded*  
The City of Moses Lake Water System, I.D. 56300X, located in Grant County recently violated the Secondary Maximum Contaminant Level (SMCL) of 2 mg/L for fluoride in drinking water. Fluoride contamination is rarely due to human activity. Fluoride occurs naturally in some areas and is found in high concentrations in the aquifer of our source water. Although our fluoride concentrations are not an emergency, the following is a summary of our fluoride levels.

The sample collected at Well 8 had a fluoride concentration of 2.80 mg/L. The sample collected at Well 7 had a fluoride concentration of 2.54 mg/L. The sample collected at Well 14 had a fluoride concentration of 2.48 mg/L. The sample collected at Well 9 had a fluoride concentration of 2.12 mg/L.

This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by the City of Moses Lake has a natural fluoride concentration between 0.26 and 2.65. Fluoride is not added to City water. All results over 2.00 mg/L are listed above.

Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/L of fluoride (the U.S. Environmental Protection Agency’s drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4 mg/L of fluoride, but we’re required to notify you when we discover that the fluoride levels in your drinking water exceed 2 mg/L because of this cosmetic dental problem.

Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP.

At this time no action is required by the water users. We are continuing to monitor fluoride levels. We will inform you if they exceed the limit of 4 mg/L. For more information, please call the Water Division at 509-764-3945. This notice is being sent to you by the City of Moses Lake Water Division, in the Water Quality Report, being mailed in May or June 2018.