

# 2024 Water Quality Report

**HOW SAFE IS KNAPPA WATER? WHERE DOES OUR WATER COME FROM? WHAT CAN I DO TO HELP PROTECT MY DRINKING WATER?**

To help answer these questions, Knappa Water Association (KWA) has prepared this report to show you how our drinking water compares with nationally-established standards.

**Our Sources** Knappa water is supplied by eight wells. All eight wells are south of Highway 30 and located on either state or private timber land. Each well was drilled through a confining layer of rock, which seals the aquifer from the influence of surface water.

**Aquifer** Two aquifers supply our wells, the Columbia River Basalt and the Astoria Formation Sandstone. A copy of our source water assessment is available at our office. It contains detailed information about our wells and potential sources of contamination and states that our drinking water supply is not susceptible to viral contamination. KWA is working on a Wellhead Protection Plan to ensure our sources remain free of contamination. Each patron can help in the protection effort by properly disposing of waste products, such as unused pesticides, solvents, and petroleum-based products.

**Treating the Water** KWA disinfects with chlorine. No other treatment is provided or necessary. *We do not add fluoride.* KWA disinfects at a rate of 0.2 MG/L. The maximum residual disinfection level is 4.0 MG/L.

**Water Quality Standards** The Federal Safe Drinking Water Act of 1974, and the 1986 and 1996 amendments, were developed to ensure the quality and safety of the nation's drinking water. The federal government, through the U.S. Environmental Protection Agency (EPA), has the authority to regulate public water systems to protect public health. The EPA sets national drinking water standards and establishes drinking water testing methods. The Oregon Health Authority administers the drinking water regulations for EPA in our state.

Currently, there are more than 120 water quality standards for potential contaminants in drinking water. More standards will be added in the coming years. A contaminant is defined as any substance in water. However, not all contaminants are harmful. Some contaminants are of concern only if they are detected above certain levels. In order to be in compliance with EPA regulations, Knappa drinking water must have contaminant levels at or below all drinking water quality standards.

KWA routinely monitors for contaminants in your drinking water according to federal and state laws. The following table shows the results of our monitoring. This table includes terms and abbreviations with which you might not be familiar. To help you better understand these terms we've provided the following definitions:

Violation?	Detect	Unit	MCLG	MCL	
<b>Source Composite from Wells 85-1, 85-3, 90-1, 97-1, 06-1 &amp; 06-2</b>					
Asbestos	N	ND	MFL>10um	n/a	7
Haloacetic Acids(HAA5)	N	ND		n/a	.060
Nitrate <sup>(3)</sup>	N	0.340	mg/l	n/a	10
Sodium <sup>(2)</sup>	N	63.9	mg/l	n/a	20+
Trihalomethanes (THM)	N	ND		n/a	.080
<b>Gun Club Well</b>					
Sodium <sup>(2)</sup>	N	15.0	mg/l	n/a	20+
Nitrate <sup>(3)</sup>	N	ND	mg/l	n/a	10
<b>Household Samples (Tested 2024; see note below)</b>					
Copper <sup>(1)</sup>	N	0.079	ppm	1.3	AL=13
Lead <sup>(1)</sup>	N	0.00111	ppb	0	AL=015

**Test Results** (January—December 2024)

\* recommended

<sup>(1)</sup> corrosion of household plumbing systems

<sup>(2)(3)</sup> erosion of natural deposits

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

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

Maximum Contaminant Level Goal - 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 Contaminant Level - The Maximum Allowed (MCL) is the highest level of a contaminant that is allowed in drinking water.

**Total Coliforms** Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful bacteria may be present. Coliform results are based on two samples-per-month, taken from the distribution system. No coliforms were detected. Source water coliforms at source water showed no detect in 2024.

**Nitrates** We test annually. (See test results table above).

**Lead & Copper** No home exceeded the AL. Household samples were taken in June 2024 and will be taken again in 2027.

**Sodium** Our wells vary from 15.0 to 63.9 ppm sodium. If you are on a low-sodium diet, consult your physician to see if this amount would be significant. A sample was taken in 2020 with detects. Next sampling will be in 2029.

**Inorganic Chemicals** are those found in nature, such as metals, minerals, and salts. Samples were taken in 2020 with detects but no violation. Samples will be collected again in 2029.

**Synthetic Organic Chemicals (SOCs)** include weed killers and insect sprays. We tested in 2023 with no detects. Next testing scheduled for 2026.

**Volatile Organic Chemicals (VOCs)** include petroleum-based chemicals, industrial byproducts, and dry-cleaning solvents. We sampled in 2023 with no detect. Samples will be taken next in 2026.

**Asbestos** A system using any asbestos cement pipe is required to sample for asbestos fibers every nine years. A sample was taken in 2021 and no fibers were found. Next sampling date is 2030.

**Disinfection Byproducts** Trihalomethanes and haloacetic acids can be precursors to cancer. Samples are taken at point(s) far from the source. Last tested 2024. There were no detects. Next sampling period is 2025.

**Radionuclides** We tested for radionuclides in 2017. We had a detect but no violations. Samples will be taken next in 2026, as required.

**No Detects and No Violations...**Our system had no violations. We are proud that our drinking water meets or exceeds all Federal and State standards.

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 (1-800-426-4791).

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).

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. Knappa Water Association 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>.

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. 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 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems. 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 which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

If you have any questions about this report, please call the office at (503) 458-6461.

Our office hours are Monday through Thursday 9am to 1pm. Chris, our Operations Manager, works both out in the water system and in the office Monday through Friday. Members are welcome and encouraged to attend our monthly Board Meetings. They are the second Monday of the month at 7:00pm.



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AND MEETS ALL FEDERAL AND  
STATE REQUIREMENTS**