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# 2019 Water Quality Report

## Rae Lake Water System

PWS ID #70755 0

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H2O Management Services is pleased to present to you this year's Water Quality Report. This report is designed to inform you about the quality of your water and the services we deliver to you every day.

The Raelake Homeowners Association has contracted with H2O Management Services since July 2005 to provide professional management and operation of the water system by qualified personnel. You will see H2O in and about the community as we perform routine preventative maintenance and repairs. Thank you for the opportunity to serve your community.

### Where does my water come from?

Your water source at Raelake is ground water. Well #3 (SO3), at a depth of 119 ft., is the primary water source at Raelake. Well #1 (SO1) can supply water to the system for short periods on an emergency basis and only if Well #3 (SO3) becomes inoperable.

### 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. **Microbial contaminants**, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. **Inorganic contaminants**, such as salts and metals, can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming. **Pesticides and herbicides** may come from variety of sources such as agriculture, urban storm water runoff, and residential uses. **Organic Chemical Contaminants**, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production,

and can also come from gas stations, urban storm water runoff, and septic systems. **Radioactive contaminants** 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, the Washington State Department of Health and the U. S. Environmental Protection Agency prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) and the Washington State Department of Agriculture regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

### 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).

### Variances and Exemptions (Waivers)

An assessment of Rae Lake Water System's source water was done by the Department of Health to determine the susceptibility of your source to contaminants. This is important because the assessment determined that the susceptibility of your water to contaminants is high. However, based on prior testing which showed low or no detection of these contaminants, the Department of Health granted Rae Lake Water System a waiver which allows reduced testing for Inorganic Contaminants (IOC) through 2019. New waivers will be applied for when offered by the Department of Health.

### Source protection information

Source Water Assessment Program (SWAP) data is available for all community PWSs in Washington. SWAP data for your PWS is online at: <https://fortress.wa.gov/doh/eh/dw/swap/maps/> If you don't have access to the Web, we encourage you to use the Internet service available through the public library system.

### Water Quality Data Table

The table below lists all of the drinking water contaminants that we detected during the calendar year January 1 thru December 31, 2019.. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. 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 are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

Contaminants	MCL	MCLG:	Your Water	# Samples Exceeding MCL	Sample Date	Typical Source
<b>Inorganic Contaminants</b>						
Nitrate [measured as Nitrogen] (ppm) Samples from SO3**	10	10	0.7	0 of 1	12/3/19	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Contaminants	AL:	#Samples Taken	Range of Results	Exceeds AL	Sample Date	Typical Source
Copper - action level at consumer taps (ppm) 90 <sup>th</sup> Percentile Results	1.3	5	<0.02	0 of 5 Samples	12/6/17	Corrosion of household plumbing systems; Erosion of natural deposits
Lead – action level at consumer taps (ppm) 90 <sup>th</sup> percentile results	15	5	<.001	0 of 5 Samples	12/9/17	Corrosion of household plumbing systems; Erosion of natural deposits

#### Unit Descriptions

**ppm:** parts per million, or milligrams per liter (mg/L)

**ppb:** parts per billion, or micrograms per liter (ug/L)

**ND:** Not Detected

#### Important Drinking Water Definitions

**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

**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

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

**Lead & Copper 90<sup>th</sup> Percentile:** Out of every 10 homes sampled, 9 were at or below this level.

#### 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. Rae Lake Eater System 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>.

#### Additional information for Nitrate

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of

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time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

### **Water Use Efficiency Report (WUE)**

The Rae Lake Water Systems' proposed WUE goal is to reduce summer water consumption by one percent per year over the next six years. We plan to accomplish this goal by public outreach; using available water saving devices; and utilizing conservation rates. You can help meet the 2020 WUE summer savings goal of 1% savings system-wide by following these simple guidelines.

#### **Car Washing**

- Use a shut-off nozzle on your hose that can be adjusted down to a fine spray, so that water flows only as needed. Check hose connectors to make sure plastic or rubber washers are in place to prevent leaks.
- Consider using a commercial car wash that recycles water.
- Wash your car on the lawn, and you'll water your lawn at the same time.

#### **Ten ways that will save the most water:**

1. Water your lawn only when it needs it. Step on your grass. If it springs back when you lift your foot, it doesn't need water. Set your sprinkler for more days between watering. This saves 750-1500 gallons per month. In times of drought, water with a hose.
2. Fix leaky faucets and plumbing joints. This saves 20 gal per day for every leak stopped.
3. Don't run the hose while washing your car. Use a bucket of water and a quick hose rinse at the end. This saves 150 gals each time. For a two-car family the savings is up to 1200 gallons a month.
4. Install water saving shower heads or flow restrictors. Saves 500-800 gallons per month
5. Run only full loads in the washing machine and dishwasher. Saves 300-700 gallons per month
6. Use a broom instead of a hose to clean driveways and sidewalks. Saves 150 gallons or more each time. At once a week, the savings is more than 600 gallons a month.
7. Don't use your toilet as an ashtray or wastebasket. Saves 400-600 gallons per month.
8. Shorten your showers. Even a one or two minute reduction can save up to 700 gallons per month.
9. Capture tap water while you wait for hot water to come down the pipes. Catch the flow in a watering can to use later on house plants or your garden. Saves 200-300 gallons per month.
10. Don't water the sidewalks, driveway or gutter. Adjust your sprinklers so that water lands on your lawn or garden where it belongs. Saves 500 gallons per month.

**In order to learn more about your water system,  
Plan to attend community meetings as they are scheduled by the Rae Lake Homeowners Association  
H2o Management Services Inc. is now on line.  
In the future, all CCR reports will be on the website.  
Look for them in June of each year.  
Our website is [h2omanagementservicesinc.com](http://www.h2omanagementservicesinc.com).  
When typing the URL be sure to use the letter "o" and not the number zero.**

**If you have any questions about this report or concerning your water utility, please contact:**

**H2O Management Services Inc. PO Box 2026, Shelton, WA 98584**

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