You are legally responsible to provide this water quality information to your renters. Please provide them with a copy – additional copies are available upon request. Thank you.

CRUMBACHER ESTATES

Public Water System #13916 Q – Tonasket, Washington 2024 Consumer Confidence Report

This annual report is designed for consumers of drinking water within the Crumbacher Estates Water System (Crumbacher), and provides information about the quality, source, and potential health effects of contaminants in our local and source water systems. This report conforms to the Federal regulation, contained within the Safe Drinking Water Act, which requires that this information be provided annually. This report contains a summary of the water quality test results from the Crumbacher source water and distribution system. The data contained in this report was collected during or prior to 2023.

DEFINITIONS

The following definitions may be used in this report:

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 (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.)

AL – Action Level (The level of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.)

mg/L – milligrams per liter (This unit is equivalent to measurements in parts per million.)

ug/L – micrograms per liter (This unit is equivalent to measurements in parts per billion.)

pCi/L – picoCuries per liter (A measurement of radioactivity.)

ppt – parts per trillion

SOURCE WATER

The source water for Crumbacher is supplied by two drilled wells, approximately 200 feet deep, located on the south side of Oakes Drive. The primary well, utilized during the irrigation season, is capable of providing 450 gallons/minute, while the smaller well, used during the winter, can produce 55 gallons/minute. During the winter months, the water is delivered by means of a 30,000-gallon reservoir located next to the wells, and the water is chlorinated to prevent bacterial growth in the reservoir. In summer, the water is pumped directly from the well to the distribution system, eliminating the need for continuous chlorination

Source water tests are mandated by the Washington State Department of Health (DOH) to monitor the quality of the Crumbacher source water. This provides information on the quality of the water being pumped from the aquifer. Further information about the Crumbacher source water can be found in the source water assessment, on file with the Department of Health. The assessment evaluates the potential risk of contamination that may be posed by activities or conditions in the area.

SOURCE WATER TESTING SUMMARY

The following tests were performed on the Crumbacher source water in or prior to 2023. These samples were collected from a sampling tap at the pump house, and represent the water served from the source.

| Substance Analyzed | Date Collected | Detected Level | MCL | MCLG | Unit of Measure | Passed | |
|--|--|-------------------|--------|--------|--------------------|--------|--|
| Inorganic Chemicals (I | Inorganic Chemicals (IOC) – primary contaminants with health effects | | | | | | |
| Nitrate | 5/8/23 | 0.59 | 10 | 10 | mg/L | Yes | |
| Nitrite | 7/9/19 | No Detect | 1 | 1 | mg/L | Yes | |
| Arsenic | 7/9/19 | 1.69 | 10 | 0 | ug/L | Yes | |
| Barium | 7/9/19 | 0.04 | 2 | 2 | mg/L | Yes | |
| Cadmium | 7/9/19 | No Detect | 5 | 5 | ug/L | Yes | |
| Chromium | 7/9/19 | 1.00 | 100 | 100 | ug/L | Yes | |
| Mercury | 7/9/19 | No Detect | 2 | 2 | ug/L | Yes | |
| Selenium | 7/9/19 | 4.71 | 50 | 50 | ug/L | Yes | |
| Beryllium | 7/9/19 | No Detect | 4 | 4 | ug/L | Yes | |
| Nickel | 7/9/19 | 1.90 | 100 | 100 | ug/L | Yes | |
| Antimony | 7/9/19 | No Detect | 6 | 6 | ug/L | Yes | |
| Thallium | 7/9/19 | 1.80 | 2 | 0.5 | ug/L | Yes | |
| Cyanide | 7/9/19 | No Detect | 200 | 200 | ug/L | Yes | |
| Fluoride | 7/9/19 | 0.42 | 4 | 4 | mg/L | Yes | |
| Inorganic Chemicals (I | Inorganic Chemicals (IOC) – secondary contaminants with taste, odor, color effects | | | | | | |
| Iron | 7/15/22 | 159 | 300 | N/A | ug/L | Yes | |
| Manganese | 7/15/22 | No Detect | 50 | N/A | ug/L | Yes | |
| Silver | 7/9/19 | No Detect | 100 | N/A | ug/L | Yes | |
| Chloride | 7/9/19 | 6.30 | 250 | N/A | mg/L | Yes | |
| Sulfate | 7/9/19 | 89.7 | 250 | N/A | mg/L | Yes | |
| Zinc | 7/9/19 | 0.01 | 5 | N/A | mg/L | Yes | |
| Hardness | 7/9/19 | 278 | N/A | N/A | mg/L | | |
| Volatile Organic Chemicals (VOC) – includes petroleum products and other chemicals | | | | | | | |
| All VOCs (46 contaminants tested) | 11/20/12 | No Detect | Varies | Varies | | Yes | |
| Synthetic Organic Chemicals (SOC) – includes pesticides and herbicides | | | | | | | |
| All SOCs (64 contaminants tested) | 10/7/19 | No Detect | Varies | Varies | | | |

| Radioactivity | | | | | | |
|-------------------------|---------|-----------|-----|---|-------|-----|
| Gross alpha particles | 3/29/22 | 5.58 | n/a | 0 | pCi/L | Yes |
| Radium 228 | 3/29/22 | 0.41 | 5 | 0 | pCi/L | Yes |
| Disinfection Byproducts | | | | | | |
| Total trihalomethanes | 11/6/23 | 1.93 | 80 | 0 | ug/L | Yes |
| Haloacetic acid | 11/6/23 | No Detect | 60 | 0 | ug/L | Yes |

WHAT DOES "NO DETECT" MEAN?

Many of the contaminants listed in the results tables show an analytical result of "No Detect." This does not mean that the contaminant was not present in the water, but that the concentration, if any, was undetectable with the analytical methods used.

DELIVERED WATER

Crumbacher is also required to test for contaminants throughout the distribution system. Samples are generally collected from at least three residences throughout the system to satisfy the DOH sampling recommendations and to best represent the conditions existing in the system.

At least one water sample per month is analyzed for the presence of coliform

bacteria. In 2023, coliform bacteria were not detected in any of the samples collected from the system.

Lead and copper testing is required every three years, with samples collected from homes throughout the system after the water has stood in the pipes for at least six hours. The table below summarizes the most recent lead and copper sampling results.

| Substance Analyzed | Date Collected | Contaminant Level | AL | MCLG | Unit of Measure | Passed |
|------------------------|-------------------|----------------------|-----|------|--------------------|--------|
| Lead (4 Ponderosa) | 7/26/22 | No Detect | 15 | 0 | ug/L | Yes |
| Lead (11 Ponderosa) | 7/26/22 | No Detect | 15 | 0 | ug/L | Yes |
| Lead (1 Norway Pine) | 7/26/22 | No Detect | 15 | 0 | ug/L | Yes |
| Lead (4 Norway Pine) | 7/26/22 | No Detect | 15 | 0 | ug/L | Yes |
| Lead (17 Oakes) | 7/26/22 | No Detect | 15 | 0 | ug/L | Yes |
| Copper (4 Ponderosa) | 7/26/22 | 0.087 | 1.3 | 1.3 | mg/L | Yes |
| Copper (11 Ponderosa) | 7/26/22 | 0.050 | 1.3 | 1.3 | mg/L | Yes |
| Copper (1 Norway Pine) | 7/26/22 | 0.162 | 1.3 | 1.3 | mg/L | Yes |
| Copper (4 Norway Pine) | 7/26/22 | 0.172 | 1.3 | 1.3 | mg/L | Yes |
| Copper (17 Oakes) | 7/26/22 | 0.067 | 1.3 | 1.3 | mg/L | Yes |

Some contaminants can have serious health implications if they are ingested in high quantities or over long periods of time. The following table provides information on those contaminants with potential health effects that were detected in your drinking water during or prior to 2023. While these contaminants were detected, they were at levels below the allowable limits set by the state, and therefore should not pose a health risk to most individuals. Your doctor can provide more information about any special concerns you may have regarding your drinking water and its effects on your health.

| Contaminant | Known or likely source | Potential health effects |
|-----------------------|---|--|
| Arsenic | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes | Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer. |
| Barium | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits | Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure. |
| Chromium | Discharge from steel and pulp mills; erosion of natural deposits | Some people who drink water containing chromium well in excess of the MCL over many years could experience allergic dermatitis. |
| Copper | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives | Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor. |
| Fluoride | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories | Some people who drink water containing fluoride in excess fo the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums. |
| Gross alpha particles | Erosion of natural deposits | Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer. |
| Lead | Corrosion of household plumbing systems; erosion of natural deposits | Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. |
| Nitrate/Nitrite | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits | Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome. |
| Radium | Erosion of natural deposits | Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer. |
| Selenium | Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines | Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years could experience hair or fingernail losses, numbness in fingers or toes, or problems with their circulation. |
| Thallium | Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories | Some people who drink water containing thallium in excess of the MCL over many years could experience hair loss, changes in their blood, or problems with their kidneys, intestines, or liver. |

| Trihalometh- anes (TTHM) | By-product of drinking water disinfection. | Some people who drink water containing trihalomethanes in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer. |
|-----------------------------|--|--|
|-----------------------------|--|--|

MONITORING WAIVERS

Crumbacher has received waivers for reduced monitoring schedules for the following contaminants:

Every nine years

- Asbestos
- Complete inorganics
- Herbicides

Every six years

• Volatile organics

Every three years

- Pesticides
- Soil fumigants

SANITARY SURVEY

Periodically, public water systems receive inspections to ensure that water is being delivered in a sanitary manner and that the system is being managed according to industry standards. The Crumbacher system was inspected on June 4th, 2019 by Department of Health. Improvements to the reservoir vent and water level switch were advised and were completed immediately.

VIOLATIONS

The Crumbacher system did not receive any violations for operation and management activities in 2023.

WATER CONSERVATION

There are many ways that you as a homeowner can help to conserve water.

- Fix leaks promptly.
- Replace standard hose bibs with frost-free models, to eliminate the need for constant flow all winter.
- Use a spray nozzle when washing the car, rather than letting the hose run.
- Use a soaker hose or sprinkler to water shrubs.
- Install automatic timers on hoses.
- Place float switches on livestock tanks or pet waterers.
- Install low-flow fixtures and watersaving appliances.
- Turn off the water when you don't need it!

Remember that every gallon of wasted water from the Crumbacher system means that much more electricity must be purchased to power the pumps, and that cost is paid entirely by you. Please do your part and help conserve water. It is a limited and precious resource.

TO GET INVOLVED

If you would like to become more involved in the Crumbacher Estates Water System, or provide input, contact Doug Hale at (509) 322-0581.

This Consumer Confidence Report has been prepared by Alpine Environmental of Tonasket, Washington, serving north central Washington water systems since 2003. As your contract water operator, Alpine Environmental is proud to be providing you with the highest quality of service and oversight available. If you have any questions or comments regarding the information presented in this report, please call Alpine Environmental at (509) 826-1653 or (509) 322-0581.

A MESSAGE FROM THE EPA

Throughout Washington State, 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. At the same time, this water can also pick up substances resulting from the presence of animals or from human activity.

All sources of 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 (EPA) Safe Drinking Water Hotline at 1-800-426-4791. Contaminants that may be present in source water, and that are routinely tested for, include:

<u>MICROBIAL CONTAMINANTS</u> such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

<u>INORGANIC CONTAMINANTS</u> such as salts and metals, which can be naturally-occurring or may 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 a variety of sources such as agricultural and residential uses.

RADIOACTIVE CONTAMINANTS, which are naturally-occurring.

ORGANIC CHEMICAL CONTAMINANTS including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

In order to ensure that our water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in the water provided by your water system. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. Washington State allows some contaminants to be monitored less than once per year because the concentration of these contaminants is not expected to vary significantly from year to year.

Additional Information

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. The EPA and the Center for Disease Control (CDC) provides guidelines on appropriate methods to lessen the risk of infection by Cryptosporidium and other microbial contaminants, and this information is available from the EPA Safe Drinking Water Hotline at 1-800-426-4791.

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. Crumbacher Estates 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 thirty seconds to two minutes before using drinking 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.

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