

LANDLORDS

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CORRAL SPRINGS

Public Water System #51714 E – Orondo, Washington 2018 Consumer Confidence Report

This annual report is designed for consumers of drinking water within the Corral Springs Water System (CSWS), 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 CSWS source water and distribution system. The data contained in this report was collected during or prior to 2017.

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.)

TT – Treatment Technique (A required process intended to reduce the level of a contaminant in drinking water.)

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.)

SOURCE WATER

The source water for CSWS is supplied by a single well drilled 136 feet into an underground source of water, or aquifer. The well is identified by the Washington State Department of Health (DOH) as Source 2 (SO2). SO2 is located on the east side of North Shore Drive within property owned by Manson Growers. CSWS restricts any activity that could potentially contaminate this source. The water produced from SO2 is pumped through a distribution line up to a 198,000 gallon reservoir before being delivered to services in the development.

Source water tests are mandated by DOH to monitor the quality of the CSWS source water. This provides information on the quality of the water that is being pumped from the aquifer. Further information about the CSWS source water can be found in the source water assessment, on file with the DOH and Alpine Environmental. The assessment evaluates the potential risk of contamination that may be posed by activities or conditions in the area. For a copy of this information, contact Alpine Environmental at the numbers listed at the end of this report.

SOURCE WATER TESTING SUMMARY

The following tests were performed on the CSWS source water in or prior to 2017. These samples were collected from a sampling tap at the well, and represent the water served from the source.

Substance Analyzed	Date Collected	Detected Level	MCL	MCLG	Unit of Measure	Passed
Inorganic Chemicals (IOC) – primary contaminants with health effects						
Nitrate	7/5/17	1.11	10	10	mg/L	Yes
Nitrite	9/19/13	No Detect	1	1	mg/L	Yes
Arsenic	7/12/07	No Detect	10	0	ug/L	Yes
Barium	7/12/07	0.14	2	2	mg/L	Yes
Cadmium	7/12/07	No Detect	5	5	ug/L	Yes
Chromium	7/12/07	No Detect	100	100	ug/L	Yes
Mercury	7/12/07	No Detect	2	2	ug/L	Yes
Selenium	7/12/07	No Detect	50	50	ug/L	Yes
Beryllium	7/12/07	No Detect	4	4	ug/L	Yes
Nickel	7/12/07	No Detect	100	100	ug/L	Yes
Antimony	7/12/07	No Detect	6	6	ug/L	Yes
Thallium	7/12/07	No Detect	2	0.5	ug/L	Yes
Cyanide	7/12/07	No Detect	200	200	ug/L	Yes
Fluoride	7/12/07	0.21	4	4	mg/L	Yes
Inorganic Chemicals (IOC) – secondary contaminants with taste, odor, color effects						
Iron	7/12/07	58.0	300	N/A	ug/L	Yes
Manganese	7/12/07	No Detect	50	N/A	ug/L	Yes
Silver	7/12/07	No Detect	100	N/A	ug/L	Yes
Chloride	7/12/07	3.30	250	N/A	mg/L	Yes
Sulfate	7/12/07	45.3	250	N/A	mg/L	Yes
Zinc	7/12/07	0.34	5	N/A	mg/L	Yes
Hardness	7/12/07	232	N/A	N/A	mg/L	Yes
Volatile Organic Chemicals (VOC) – includes petroleum products and other chemicals						
All VOCs (47 contaminants tested)	5/9/17	No Detect	Varies	Varies	--	Yes
Synthetic Organic Chemicals (SOC) – includes pesticides and herbicides						
Herbicides (15 tested)	8/21/17	No Detect	Varies	Varies	--	Yes

Pesticides (70 tested)	8/29/06	No Detect	Varies	Varies	--	Yes
Radioactivity						
Radium	11/23/04	0.84	5	0	pCi/L	Yes
Gross alpha particles	2/7/01	6.08	15	0	pCi/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

CSWS is required to test for contaminants throughout the distribution system. Samples are to be collected from at least three residences throughout the system 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 2017, coliform bacteria

were **not detected** in any of the 24 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	Dates Collected	Contaminant Level	AL	MCLG	Unit of Measure	Passed
Lead (B1, Lot 9)	7/23/17	No detect	15	0	ug/L	Yes
Lead (B2, Lot 17)	7/24/17	No detect	15	0	ug/L	Yes
Lead (B2, Lot 48)	7/23/17	0.004	15	0	ug/L	Yes
Lead (B2, Lot 56)	7/22/17	0.004	15	0	ug/L	Yes
Lead (B2, Lot 76)	7/24/17	0.002	15	0	ug/L	Yes
Copper (B1, Lot 9)	7/23/17	0.023	1.3	1.3	mg/L	Yes
Copper (B2, Lot 17)	7/24/17	0.032	1.3	1.3	mg/L	Yes
Copper (B2, Lot 48)	7/23/17	0.144	1.3	1.3	mg/L	Yes
Copper (B2, Lot 56)	7/22/17	0.260	1.3	1.3	mg/L	Yes
Copper (B2, Lot 76)	7/24/17	0.035	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 table below provides information on those contaminants with potential health effects that were detected in your drinking water during or prior to 2017. 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
Barium	Erosion of natural deposits; discharge from metal refineries; discharge of drilling wastes	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.
Copper	Erosion of natural deposits	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; discharge from fertilizer and aluminum factories; water additive which promotes strong teeth	Some people who drink water containing fluoride in excess of 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 disabilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.
Nitrate	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.

CROSS-CONNECTION CONTROL

A cross-connection is any connection between your potable water system and a non-potable water source, chemical, or other contamination source. In our use of drinking water we create cross-connections every day, often without even realizing it.

Cross-connections are the single-most frequent sources of contamination for a water system, and it can be very costly to restore a system's integrity when contamination has occurred. Even more of a concern is the possibility that illness or even death could result from the

consumption of water that has been contaminated through a cross-connection. For this reason, it is vital to ensure that cross-connections are eliminated or isolated whenever they are identified.

All new domestic water services are being installed with a separate vault after the water meter to house the backflow device. Existing services that are lacking backflow preventers or that have improperly installed backflow preventers will be required to retrofit the assemblies such that they can be tested as required. The CSWS board is in the process of

adopting a cross-connection policy that will address this deficiency.

MONITORING WAIVERS

CSWS 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 CSWS was inspected in March, 2014. There were no significant deficiencies identified during the sanitary survey.

VIOLATIONS

The CSWS received no violations for water quality standards or management practices in 2017.

Repairs were completed on the well in October, replacing a seal that appeared to be leaking and was suspected as the entry point for the coliform bacteria detected in 2016. Water tests are being collected from the well on a monthly basis to confirm that no further contamination occurs.

WATER USE EFFICIENCY

Quick identification and repair of leaks will go a long ways toward reducing excess consumption. Other actions that you can take include shutting off water if it isn't needed, installing low-flow fixtures, and ensuring that outdoor watering is conducted during cool weather using low-flow nozzles.

COMMUNITY INVOLVEMENT

Your involvement in the management of the CSWS is important to its long-term function. Water district board meetings are held on the third Friday of each month at 3:00 p.m. at the Chelan County PUD office. To participate or provide input, contact Brian Wilson at (206) 571-4982.

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:

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 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. Corral Springs Water 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 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.