# TOWN OF CUSICK DRINKING WATER REPORT FOR YEAR OF 2022

- This is the 2022 edition of the Town of Cusick annual drinking water report. The Safe Drinking Water Act (SDWA) requires that water utilities issue an annual "Consumer Confidence" Report (CCR) such as this one, to customers in addition to other notices that may be required by law. This CCR details where our water comes from, what it contains, and any risks our water testing and treatment are designed to prevent.
- In this report, you will see that sampling and testing have been conducted year around and results have been gathered to inform you the customer, about your drinking water. We hope this information will aid you and help you better understand your Water System.

## WHERE OUR WATER COMES FROM

- Drinking water can come from many sources. Surface water comes from sources such as Lakes, Rivers, and even oceans, or rain. Ground Water comes from sources below the ground such as wells and springs. Our drinking water comes from a surface water source, the Pend Oreille River.
- Any surface water can naturally pick up minerals, metals, chemicals, and even radioactive materials, along with wastes from animal and human activity as the water flows down the river from the source. Even if the natural surroundings of the river, lakes and streams are remote and relatively free from human activity, surface water can pick up heavy metals and chemicals as it travels in the form of rain clouds across polluted areas far away from these bodies of water. The things that are carried by, dissolved by, or absorbed into pure water are called contaminants.

## HOW WE MAKE SURFACE WATER POTABLE

To help ensure the delivery of safe drinking water to customers, our raw source water is treated to remove and disinfect contaminants. We use chlorine for disinfection and then filter the water through a Rapid Sand Filter Plant to remove bacteria, viruses, or protozoa that may be present in the water. We also continually conduct samples of the water before, during, and after treatment to ensure it meets drinking water standards before it is served to anyone. Throughout the treatment process, the water is monitored by measuring instruments and controls to ensure water quality standards are being met. If at any time the water quality does not meet minimum standards, we will notify you, our customers of the event(s).

## WATER QUALITY SAMPLING

Water quality sampling is conducted at the Water Treatment Plant and throughout our water distribution system to proportionately gauge the quality of the water we serve all the way to your water tap. Tests and samples are performed consistently depending on the needs and requirements outlined in SDWA and Operation & Maintenance procedures specific to our Water Treatment Plant and Distribution system.

Many tests and samples are performed daily, some weekly, monthly, quarterly, yearly, or by a frequency

specified by the Washington State Department of Health (DOH) and the United States Environmental Protection Agency (US EPA).

## THE U.S. EPA AND YOUR WATER...

- The US EPA sets standards for our drinking water quality. These standards are regulations that the US EPA sets to control the level of acceptable contaminants in the nation's drinking water. These standards include assessing and protecting water sources, protection of wells and collection systems, ensuring qualified operators treat water, ensuring the integrity of the distribution system, and making information available to the public on the quality of our drinking water.
- We treat our water according to both DOH and U.S. EPA's regulations. The U.S. FDA regulates interstate bottled water.

## WHAT IF I HAVE SPECIAL HEALTH CONCERNS?

- Some people may be more vulnerable to contaminants in drinking water than the general population. Examples would be people who are immune- compromised, undergoing chemotherapy, people who have had organ transplants, people with HIV or AIDS or other immune disorders. Some elderly people and infants can be particularly at risk from infections or other problems.
- These people should seek advice about drinking water from their health care providers. U.S. EPA/CDC guidelines on appropriate means to lessen the risk of infections by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791

## SAMPLING FOR CONTAMINANTS

- Over the years we have sampled for many different chemicals, contaminants and have found very little (if any) contamination.
- Keep in mind that it is to be expected to find at least small amounts of some contaminants. Even bottled drinking water may contain small amounts of contaminants. In many parts of the country the 'tap' water is actually more 'pure' than bottled water. Also keep in mind that the presence of contaminants does NOT necessarily indicate a health risk.
- The following section details the types of contaminants source water and drinking water may contain.

## **POSSIBLE CONTAMINANTS IN SURFACE WATER**

- **Microbial Elements** Such as bacteria, viruses, or protozoa are usually single-cell creatures that for the most part, naturally occurring and harmless to humans, but may be harmful if originating from septic systems, livestock operations or wildlife.
- **Inorganic Elements (IOC's)** Such as heavy metals may be naturally occurring, but are usually the result of urban storm runoff, industry, or domestic wastewater discharge.
- Pesticides & Herbicides These may come from home and agricultural uses.
- Radioactive Elements Are naturally occurring elements.
- **Organic Chemical Elements (SOC's)** Are usually man-made (synthetic) and vaporize easily (volatile). Petroleum products & degreasers are examples of gas station and/or dry cleaner waste transported by storm water and sewers and discharged into surface water sources.

# SAMPLING FOR BACTERIA, VIRUSES AND PROTOZOA'S

Along with many tests, we sample for fecal coliform bacteria. Fecal coliform bacteria are a range of indicator microorganisms that should not be present in drinking water. The presence of these bacteria in drinking water indicates the possibility of other dangerous microorganisms or viruses that can cause severe illness in humans.

## PUBLIC PARTICIPATION AND INVOLVEMENT

- We encourage you to get involved with your publicly owned water system. The Town of Cusick holds monthly council meetings where you are able to get present, current and future information on water projects, as well as information about the current state of our water system. Council meetings are the best way to directly get involved in the activities of our water system.
- You may contact me at any time for questions, comments and/or help. My cell phone number is (509) 850-0020. I am usually at work from 8am to 4pm, Monday through Friday.

## **Systems Upgrades**

Due to the age of our Water Treatment Plant and limited staffing, we are working diligently with the Department of Health, Commerce and Ecology in a plan to upgrading our systems to become more efficient and to minimize any potential of compliance violations. Keep in mind, this means revenue generation in order to cover costs. Meters are being replaced; funding is being sought all to ensure that the Town of Cusick can deliver quality potable water to our customers.

#### **Further Information:**

Rustin Rathbun (certified system operator) (509) 850-0020	Spokane Health District	(509) 324-1560
Cusick Town Hall (Clerk-Treasurer) (509) 671-9008	State Department of Health	(509) 456-3115
State Department of Ecology (509) 329-3400	USEPA Safe Drinking Water Hotline	(800) 426-4791

Washington State Department of Health Drinking Water Program home page <u>http://www.doh.wa.gov/ehp/dw</u>

- The DOH Drinking Water Program has compiled **source water hazard assessment data** for all community water systems in Washington. To access this report, see this web page:
- <u>http://www4.doh.wa.gov/dw/swap/app/login.cfm?app=maps</u> Also on the web is the Sentry database, which holds water quality test results and reports on system operation and compliance. The following address is the direct link to it. <u>http://www.doh.wa.gov/ehp/dw/sentry.htm</u>
- Protecting our source water quality is everyone's responsibility. Carefully follow manufacturer's instructions for use and disposal of herbicides, pesticides, fertilizer, solvents, paints, and other hazardous chemicals. You can help keep our water clean and plentiful. **Do not flush harmful chemicals or drugs down your sink and toilet drains**. Always use safe cleaning solutions. Don't spill gas or oil on the ground. **Be courteous enough not to over water our lawns and follow park watering schedule during hot months**. Use "safe for the environment" fertilizers and weed killers. Add lawn waste only to our compost pile to allow re-use of garden waste to amend our soil. If we all do our part, we can prevent pollution and keep our water resources running clean.

Sample:	Sample Test Result			Samp	le Frequency		Violation?		
Total & Fecal Coliform bacteria (CFU) 2022.	Of the 12 samples collected for total and fecal coliform in 2022. Zero tested positive for coliform bacteria and E.Coli.			The T month water plant	own collects at least of for indicator bacteria maintains it s purity f to our customer.	each ie ment	No water quality violations were issued for coliform samples tested in 2022.		
Filter Effluent	Our single highest turbidity level			Filter	Effluent Turbidity sam	nple data is		No violations.	
Turbidity 2022	for 2022 was .23 nephelometric			record	ded continuously and	aily			
	turbidity units (NTU). Average w			at the	beginning and end of	nt			
	as 0.07 The Town met the 0.3			proce					
	in 2022 100% of the time.								
Free Chlorine	We try and run an avg. of 1.3			Chlori	ne residual sample d	ed	No violations were issued		
Residual 2020	Chlorine.			contin	uously at the water tr	nt	for free chlorine residual		
	Min2	0 ppm - MCL	4.00 ppm	and monitored daily at representative points in 2021.					
	throughout the water distribution system.								
CONTAMINANT	AL	Test Bosult	MCL	MCLG	Sample		Typical Source		
		22.400			Location	Disinfection	<b>Disinfection By-Products {DBP's)-</b> Organic		
Haloacetic Acids (HAA5)	60.40	Highest reported	60.4	60.4	Representative	compounds resulting from the interaction of			
(	ug/L	Lowest Reported	ug/L	ug/L	site near the far	supplies	natura	l organic matter in water	
Trihalomethanes	80.40	35.710 Highest reported	80.40	80.40	end system				
(THM's)	ug/L	22.200	ug/L	ug/L					
Gross Alpha	15.00	2 000	15.00	N/A	Source #1 Dect	Radium (Ra) is a r		aturally occurring	
5/2018Every 6 yr.	pCi/L	3.000	pCi/L	N/A	Treatment	radioactive element that is present in varying			
Radium 228	5.0	.2220	5.0	N/A	i loatinoitt	crust. Surfa	ust. Surface water is usually low in radium.		
5/2018Every 6 yr.		<b>T</b> 1						Turnia al Ocument	
CONTAMINANT	AL	l est Result	MCL	MCLG				of Contaminant	
		Result				-			
Lead	.015	.0019 Highest reported	N1/A	N 1 / A	0 Sites above A	AL out of Corr ed. 90 <sup>Th</sup> plum		osion of household	
Taken7/2019 Every 3 Vears	mg/L	.0002 Lowest Reported	N/A	N/A	10 sites sample			bing systems. Foreign	
Copper		.0133			0 Sites above A	ve AL out of Corr npled. 90 <sup>Th</sup> plum here. mad		osion of household	
Taken 7/2019	1.3	Highest reported .0033	N/A	N/A	10 sites sample			bing systems. Foreign	
Every 3 Years	mg/∟	Lowest Reported			% reported here			e fixtures	
Nitrate ppm					Source of nitrate is likely from: Erosion of natural			rosion of natural	
	40	4000	40	40			- <b>(</b> (		
Taken 2/2021	10	.1000	10	10	deposits in the	ground, rur	off fro	m fertilizer use and/or	

### There were NO Violations issued in 2022 from the Washington State Department of Health

The Washington State Department of Health reduced the monitoring requirements for complete Inorganic (IOC) because the source is not at risk of contamination. The last sample collected for these contaminants was taken on 6/9/2021 and was found to meet all applicable standards. Next sample to be taken in 2028.

#### Notice for the elderly, babies, and immune compromised people:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune compromised people such as those undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune 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. Environmental Protection Agency/Center for Disease Control guidelines on appropriate means to lessen risk of infection by Cryptosporidium and other microbial contaminants are available from the Environmental Protection Agency's **Safe Drinking Water Hotline (1-800-426-4791)**.

### IMPORTANT TERMS AND ABBREVIATONS DEFINED

Action Level {AL}- The concentration of a contaminant, when is exceeded, triggers treatment or other requirements that a water system must follow.

**Disinfection By-Products {DBP's)-** Organic compounds resulting from the interaction of chlorine with natural organic matter in water supplies.

**Maximum Contaminant Level {MCL)-** 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.

**Maximum Residual Disinfectant Level {MRDL**)-The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Treatment Technique {TT)-A required process

intended to reduce the level of contaminant in drinking water.

**Parts per Billion {ppb)** - One part of a particular contaminant is present for every billion parts of water.

**Parts per Million (ppm)** - One part of a particular contaminant is present for every million parts of water.

**Not Applicable (NA)-** Means that EPA has not established MCLG's for these substances.

MFL- Million fiber per liter.

**pCi/1-** picocuries per liter (a measure of radiation).

SRL- State reporting limit.

**Turbidity** is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

**Nitrate** -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

**Copper** - 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 physician.

**Lead** - 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.

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 Town of Cusick 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 testing. 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