

# WHY

## WHY AM I RECEIVING THIS WATER QUALITY REPORT?

Richland Water proudly provides this water quality report to comply with state and federal regulations and to share information about our excellent water quality with our customers.

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.

Nationally, the sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. In Richland, the primary water source is the Columbia River, with a small amount of water provided by wells. As water travels over the surface of land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive materials, 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 by-products 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.

# MESSAGE

## FROM THE EPA

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 the 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 people such as people 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 drinking water advice 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 (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. The City of Richland is responsible for providing high-quality drinking water and 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.

# COMMITTED

## TO WATER SAFETY

### Backflow Protection Prevents Contamination

As a public water system, preventing contamination from the source to your meter is a 24/7 job. Cross connection control requires backflow assemblies be installed on all new commercial services. On existing commercial services, the degree of hazard, remodeling, upgrading, or change of ownership addresses installation of backflow assemblies. The City is offering a backflow assembly program to existing commercial accounts. If you have questions or want answers relating to cross connections or backflow prevention, contact the Water Quality Office at (509) 942-7474.

### Assessments Conducted

Susceptibility Assessments have been conducted for Richland's Surface, Well Field, and single-well water sources. A high Susceptibility Rating was determined for each source. This rating does not indicate poor water quality, but the potential of becoming contaminated. The City of Richland has programs to help minimize these susceptibilities, which include well head protection, cross connection control, and source water protection programs. A copy of the assessment can be found at [www.ci.richland.wa.us](http://www.ci.richland.wa.us) or by calling (509) 942-7670.

For more information regarding this report, please contact:

Richland Water  
625 Swift Blvd  
Richland, WA 99352  
(509) 942-7670

[WaterQuality@ci.richland.wa.us](mailto:WaterQuality@ci.richland.wa.us)

# CITY OF RICHLAND

## WATER QUALITY REPORT 2024





# RICHLAND WATER PROVIDES HIGH QUALITY WATER FOR YOU

Richland Water vigilantly safeguards its water supplies in order to continue providing safe drinking water for our residents and add to the livability of our great City. The City of Richland draws water from two major sources, the Columbia River and three groundwater wells located at various sites in the City.

Once again, we are proud to report that last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and state drinking water health standards.

## CONSERVING

Our natural resources will help the health and longevity of our City as well as save you money. Here are ten tips that will make a difference to your monthly bill and our community:

- Water** your lawn during the least sunny times of the day.
- Consider** installing low water use landscaping and lower flow sprinkler heads where possible.
- Repair** toilet, faucet, plumbing or irrigation leaks.
- Replace** older (higher-flow) faucet aerators and shower heads with low-flow ones.
- Take** short showers - a five minute shower uses 4 to 5 gallons of water compared to 50 gallons for a bath.
- Turn** the faucet off while brushing your teeth and shaving; 3-5 gallons go down the drain per minute.
- Use** high-efficiency toilets and appliances.
- Wash** full loads in the washer and dishwasher using cold water instead of hot whenever possible.
- Conduct** a Home Water Audit.
- Teach** your kids about water conservation to ensure a future generation that uses water wisely.

# 2024 WATER QUALITY RESULTS

Substance (Units)	Goal (MCLG)*	EPA's Allowable Limits (MCL)*	Average Level Detected <sup>3</sup>	Range Detected		Typical Source	Violation
				Low	High		
DISINFECTANTS & DISINFECTION BY-PRODUCTS (There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.)							
Haloacetic Acids (HAAS) (ppb) **	NA**	60	11.87/44.82	5.79	68.30	By-product of drinking water chlorination	No
TTHMs [Total Trihalomethanes] (ppb)**	NA**	80	13.67/54.52	6.62	80.11	By-product of drinking water chlorination	No
INORGANIC CONTAMINANTS							
Nitrate [measured at Nitrogen] (ppm)**	10	10	0.251	0.251	0.251	Runoff from fertilizer use; Leaching from septic tanks sewage; Erosion of natural deposits	No
Arsenic	ND	0.010	ND	ND	ND		
Gross Alpha	0	15 pCi/L**	0.564	-.812	1.68		
Beta	0	40 pCi/L**	1.147	-2.20	3.28		
Combined Radium	0	5 pCi/L**	0.236	0.236	0.236		

COPPER AND LEAD (With the stability of the water throughout the City of Richland Water System, we do not have the need for chemical addition to assist in corrosion control.)						
Substance (Units)	Goal (MCLG)*	EPA's Allowable Limits (MCL)*	Level Detected (90 <sup>th</sup> percentile) <sup>2</sup>	Number of Samples Exceeding the AL	Typical Source	Violation
Copper - action level at consumer taps (ppm)**	1.3	1.3 (AL)*	0.18000	0	Corrosion of household plumbing systems; Erosion of natural deposits	No
Lead - action level at consumer taps (ppm) **	0	.015 (AL)*	0.00239	0	Corrosion of household plumbing systems; Erosion of natural deposits	No

COLUMBIA RIVER WATER TREATMENT PLANT FINISH WATER				
Analytes	Average Level Detected	Low	Range Detected	High
pH	7.9	7.4		8.3
Alkalinity	60 mg/L**	54 mg/L**		72 mg/L**
Hardness	70.6 mg/L** (4.12 gr/gal)	70.6 mg/L** (4.12 gr/gal)		70.6 mg/L** (4.12 gr/gal)
System Free Chlorine Residual	1.2 mg/L**	0.9 mg/L**		1.4 mg/L**
Turbidity*	0.04 NTU*	0.03 NTU*		0.10 NTU*
2024 PFAS REPORT RESULTS IN UG/L				
Compound	Average Level Detected	Low	Range Detected	High
PFBS	ND	ND		ND
PFHxS	ND	ND		ND
PFOS	ND	ND		ND
PFOA	ND	ND		ND
PFNA	ND	ND		

Wellsian Way wells (ground water) bled into the distribution system. Hardness may be as high as 301mg/L \*\*. Although this is a small percentage of total water production, it will influence hardness levels in some areas of the distribution system.

Unregulated Contaminant Monitoring UCMR5 sample results showed measurable content of unregulated PFAS contaminants in sources S02 & S05 and were taken offline in July 2023.

2024 monitoring for anatoxin-a revealed detections in both untreated and treated water at levels below health advisory levels.

### RESULTS OF CRYPTOSPORIDIUM MONITORING

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water and/or finished water. Cryptosporidium results collected during round two of the LT2ESWTR (2015-2017) determined the Columbia River source is 0.056 oocysts. This level places this source in Bin 1 and requires no additional treatment for Cryptosporidium. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immunocompromised people are at greater risk of developing a life-threatening illness. We encourage immunocompromised individuals to consult their doctor regarding appropriate precautions to avoid infection. Cryptosporidium must be ingested to cause disease and it may be spread through means other than drinking water. The City's Water Treatment Plant and North Richland Slow Sand Filtration Facility comply with state and federal treatment technology requirements for Cryptosporidium.

### Results of Coliform Monitoring

Coliform samples collected per week - 26  
Number of positive Coliform samples - 0

### \*IMPORTANT DRINKING WATER DEFINITIONS

- 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.
- ND** Not Detected
- NTU** Nephelometric Turbidity Unit
- Turbidity** Turbidity is a measurement of suspended particles in the finished water that is used to measure filter performance in the water treatment process.
- AL** Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

<sup>1</sup> Hardness of individual sources can range from 61 to 301 mg/L\*\*  
<sup>2</sup> 90th percentile level means that 90% of samples analyzed were at or below this concentration.  
<sup>3</sup> High and low averages of 8 TTHM and HAA5 sample sites:  
\*\* **ppm** (Parts per Million), **ppb** (Parts per Billion), **pCi/L** (Pico Curies per Liter), **mg/L** (Milligrams per Liter), **NA** (Not Applicable), **ND** (Not Detected)  
**Fluoride:** The City of Richland does not add fluoride to the water system. Fluoride levels are only trace amounts from naturally occurring sources.