

**WATER UTILITY PHONE NUMBERS**

Billing & Customer Service.....503.630.8270

Maintenance; Pressure Information; Quality/Taste/  
Odor Concerns.....503.630.8270

After-Hour Emergencies **ONLY** (After 4PM or on  
weekends).....503.849.9951

EPA Safe Drinking Water Hotline.....800.426.4791  
Oregon Health Division.....503.731.4010

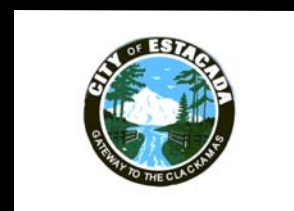


**WANT MORE INFORMATION?**

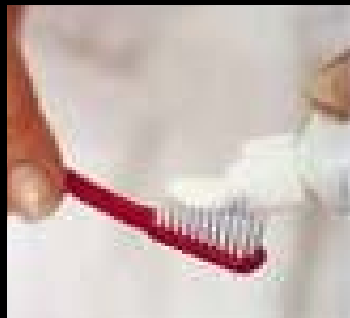
This report shows the level of our water quality and also what this means to you. We want our customers to be informed about our water utility. If you have additional questions please call the City of Estacada at 503-630-8270.

Regular City Council Meetings take place on the 2nd & 4th Monday of every month at 7:00pm. They are held in the City Hall Council Chambers at 475 SE Main St. and are open to the public

The City of Estacada delivers water to more than 2,695 residents each day. Our Public Works crew is responsible for maintaining almost 18 miles of water distribution line.

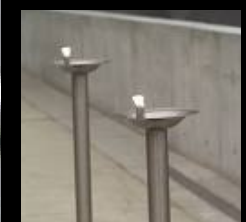
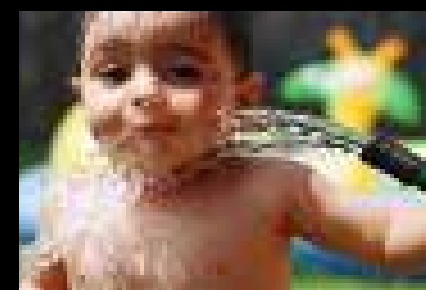


**CITY OF ESTACADA,  
OREGON**



RESULTS MEET OR EXCEED STATE AND FEDERAL DRINKING WATER STANDARDS.

**WATER  
QUALITY  
2010**



# TABLE DEFINITIONS



- ★ **Non-Detects (ND)** - laboratory analysis indicates that the constituent is not present.
- ★ **Parts per million (ppm) or Milligrams per liter (mg/l)** - one part per million corresponds to one minute in two years or a single penny in \$10,000.
- ★ **Parts per billion (ppb) or Micrograms per liter** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- ★ **Nephelometric Turbidity Unit (NTU)** - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5.0 NTU is just noticeable to the average person.
- ★ **Action Level** - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- ★ **Treatment Technique (TT)** - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
- ★ **Maximum Contaminant Level** - The "Maximum Allowed" (MCL) is 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 Contaminant Level Goal** - The "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.
- ★ **Maximum Residual Disinfectant Level (MRDL)** - means a level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

**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. The City of Estacada 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 or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

### How is my water treated and purified?

While the Clackamas River is an exceptionally clean water source, it is processed in our water treatment plant to make it safe. Estacada's treatment is a direct filtration process using screens and chemical agents to make small particles in the water stick together into larger particles, which are then filtered out using a layered filter bed of silica sand and garnet sand. The water is then treated with a disinfectant before it is pumped into the distribution system and reservoirs.

*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 EPA's Safe Drinking Water Hotline (1-800- 426-4791).*

### VIOLATIONS

Violations are written into public record when the water system does not meet state requirements. This year we have had some violations associated with our monthly coliform sampling. Positive total coliform samples indicate a group of bacteria are present, some of which may be harmful to humans. So follow up retesting is then immediately undertaken to confirm presence of coliforms.

Required sampling for our system is three routine total coliform samples / month. If a routine sample is positive, three repeat samples are required. If any of these samples show positive more repeat samples and corrective actions are required. In addition to these repeat samples if the system is collecting fewer than five routine coliform samples the following month the system must collect 5 routine samples.

We had some routine samples show positive results, these were at our system locations where we are most likely to see positive results. We followed up with the repeat samples and all that we tested came back negative, but failed to collect the required 5 samples the following month, adding a violation to the record. We had gone so long between positive samples that we failed to notice that the follow up sampling schedule had changed, we have corrected our sampling schedule and contracted with another sampling laboratory.

### SPECIAL NOTICE FOR IMMUNO-COMPROMISED PERSONS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as people 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.

Environmental Protection Agency / Centers for Disease Control and Prevention Guidelines on the appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the SAFE DRINKING WATER HOTLINE at 800.426.4791.

### WHERE DOES MY WATER COME FROM?

The Clackamas River begins on the slopes of Ollalie Butte, near Mt. Hood, and flows 82 miles from an elevation of 6,000 feet down to 12 feet where it joins the Willamette River. The watershed drains an area of nearly 950 square miles, winding through forests, mountain meadows, farmlands and suburban neighborhoods. Roughly 200,000 Oregonians depend on this surface water supply for high-quality drinking water, hydroelectric power and outdoor recreation.

### TEST RESULTS

Substance	MCL	MCLG	level found	range		violation	typical source
				low	high		
Volatile Organic Compounds (VOC): Bromodichloromethane			Non detects	0.56	0.56	No	Erosion of natural deposits
Volatile Organic Compounds (VOC): Chloroform			Non detects	2.27	2.27	No	
TTHM	80 ug/L	n/a	15.9 ug/L	7.72	18.1	No	by-products of drinking water disinfection
HAA5	60 ug/L	n/a	18.2 ug/L	4.74	18.2	No	
Nitrate			Non detects	9.01	9.01	No	Erosion of natural deposits

### LEAD & COPPER

(Tested Sep 2009)

Substance	Units	Goal	Action Level (AL)	90th Percentile	Locations Exceeding Action Level	Violation	Source of Contaminate
Copper	ug/L	1.3	1350	13	0	No	Corrosion of household plumbing
Lead	ug/L	1.0	15.5	3.4	1	No	Corrosion of household plumbing

### TURBIDITY RESULTS

Turbidity	Units	MCL	MCL %	Highest reading	Lowest monthly % meeting limits	Violation	Erosion of natural deposits
	NTU	0.3	> 95%	0.67	96%	No	

#### Violations:

Late reporting of monthly self monitoring data - 1 time

### HOW CAN I GET MY WATER TESTED?

Call the City of Estacada at 503-630-8270 for information about water quality testing. For extensive testing, private laboratories can test your tap water for a fee. Not all labs are accredited to test for all contaminants. For information about accredited labs, call the Oregon Department of Human Services, Oregon Environmental Lab Accreditation Program at 503-229-5505 or visit [www.oregon.gov/DHS/ph/orelap](http://www.oregon.gov/DHS/ph/orelap).

The City has undergone a source water assessment by the State of Oregon. A copy of this assessment may be obtained at City Hall or by calling 503.630.8270.