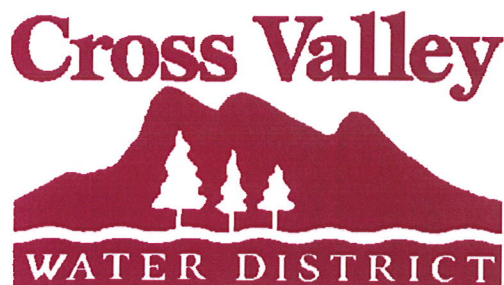


# 2005

## Water Quality Report



### For More Information on Water Quality Issues:

To receive more information on water quality, you may contact:

Cross Valley Water District  
8802 180th St. SE  
Snohomish, WA  
98296-4804  
(360) 668-6766  
(425) 485-8461  
[cvwd@crossvalleywater.net](mailto:cvwd@crossvalleywater.net)

EPA Safe Drinking Water  
Hotline (800) 426-4791  
[www.epa.gov/safewater](http://www.epa.gov/safewater)

Washington State  
Department of Health  
(800) 521-0323  
[www.doh.wa.gov/ehp/dw](http://www.doh.wa.gov/ehp/dw)

Cross Valley Water District is pleased to provide you with our 2005 Water Quality Report. In this report we will provide you with information about your water source and the results of our water quality testing in 2005.

Public interest and participation is encouraged in our community's decisions regarding drinking water. Regular meetings of the Board of Commissioners occur on the first and third Tuesday's of each month. Meetings are held at the District Office at 3:30 p.m. You are welcome to attend and discuss your concerns. Please call the General Manager, Gary Hajek at (360) 668-6766 or (425) 485-8461 ext. 102 to reserve your spot on the agenda if you wish to address the Board.

### What you will find in this report:

- ⇒ Water Source—Where your water comes from
- ⇒ Source and types of contaminants
- ⇒ Test results for the water tested in your area
- ⇒ Explanation of the results
- ⇒ Regulated and Unregulated Contaminants

### WHY ARE WE SENDING THIS REPORT?

The Safe Drinking Water Act (SDWA) requires community water systems to provide customers with annual reports on the quality of their drinking water. This information is to raise consumer awareness of where their water comes from and to help them understand the process by which safe drinking water is delivered to their homes. All people are exposed to sources of disease and illness every day in many different ways. Typically, healthy people have normal immune systems that can help prevent diseases from many sources. 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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791). The information in this report has been collected and reported in accordance with the water quality standards established by the EPA and DOH. Cross Valley is dedicated to providing you with the safest and most reliable water supply.



### I've read your report and I still have questions!

Cross Valley Water District is committed to keeping our customers up-to-date on water issues. If you still have questions, comments or suggestions, feel free to contact us at (360) 668-6766 or (425) 485-8461. You may also email your questions or comments to [cvwd@crossvalleywater.net](mailto:cvwd@crossvalleywater.net).

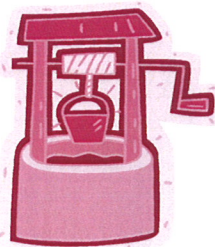


## DO I RECEIVE GROUNDWATER OR SURFACE WATER TO MY HOME?

Cross Valley Water District has several sources from which we draw water. One source is from our own wells listed below. Some of our customers also receive water that we purchase from the city of Everett. This water is surface water that comes from Spada Reservoir, located about 30 miles east of Everett. This water is treated at the Lake Chaplin Treatment plant where Chlorine & Fluoride is added.

If you do not know from which water source your water is drawn, please call our office and we will be able to tell you whether your home receives well or surface water.

WELL NAME	FLOW RATE (In gpm)	WELL SCREEN DEPTH-FT.	PRES-SURE ZONE	TREATMENT
1	130	171-191	640	None
3	350	208-238	640	None
5	450	217-244	756	Filtration & Chlorination
6	400	235-255	575	Filtration & Chlorination
7	350	171-191	640	None
7A	150	204-214	640	None
8	350	174-244	640	None
9	980	262-300	640	None
10	700	220-271	575	Filtration & Chlorination
Wood-lane	40	156-168	640	None



## Turbidity, Nitrate, Total Coliform Bacteria, Fluoride, Bromodichloroacetic Acid, Chloroform, Lead, Copper ..... What do all these terms mean?

**Maximum Contaminant Level (MCLG)** - 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.

**Maximum Contaminant Level (MCL)** - The level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as is feasible using the best available treatment technology.

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

**Action Level (AL)** - The concentration of a contaminant which, if exceeded, triggers treatment of other requirements that a water system must follow.

**Parts per Million (ppm)/Parts per Billion (ppb)** - A part per million means that one part of a particular contaminant is present for every million parts of water. Similarly, parts per billion indicate the amount of contaminant per billion parts of water.

**Total Coliform Bacteria** - Testing is used to monitor microbial quality in the water distribution system.

**Fluoride** - Is added to the water (Everett Water Supply Only) in carefully controlled levels for dental health. The Fluoride in well water comes from natural sources.

**Nitrate** - The small amount of nitrate comes from natural sources in the water shed.

**Turbidity** - Is a measure of the amount of particulates in water measured in Nephelometric Turbidity Units (NTU). Particulates in water can include bacteria, viruses and protozoans that can cause disease. Turbidity measurements are used to determine the effectiveness of the treatment process in removing these particulates. 95% of all combined filter effluent samples, must be less than, or equal to 0.3 NTU and no single turbidity sample can be greater than 1.0 NTU.

**<sup>1</sup>Bromodichloroacetic Acid, Chloral Hydrate, Dichloroacetonitrile, 1,1 Dichloropropanone, 1,1,1 Trichloropropanone, Total Organic Halides** - These substances are by-products of the chlorine disinfection process and were monitored quarterly as part of the Information Collection Rule (ICR) requirements.

**<sup>2</sup>Bromodichloromethane, Chloroform, Dichloroacetic Acid, Trichloroacetic Acid** - These substances are disinfection by-products which must be monitored quarterly every year to determine compliance with the Disinfectants/Disinfection By-products Rule regulations.

**<sup>3</sup>Not Applicable (N/A)** - Means that EPA has not established MCLGs for these substances.

**Microbial, Turbidity and Inorganics** - All parameters are below EPA standards.

**Lead & Copper** - EPA requires monitoring for the presence of lead and copper. The 90% level is the highest result obtained in 90% of the samples when ranked from lowest to highest findings. This indicates there is virtually no lead or copper in the water you are provided, but your household plumbing may contribute to the presence of lead and copper at your tap.

**ND & NR** - "ND" means not detected. "NR" means the contaminant was not regulated by EPA.

**Arsenic** - In January 2001, considerable media attention was given to the Bush administration's decision to review the new arsenic standard for drinking water approved by President Clinton. After extensive review of all available health effects data, the USEPA and President Bush reinstated the new maximum contaminant level (MCL) for arsenic in drinking water of ten parts per billion (10 ppb). Over the past year, Everett and Cross Valley have routinely monitored the treated drinking water for arsenic. None near the MCL was detected in any of the samples collected.

**Treatment Polymers** - During water treatment, polymers are added to improve filtration and remove particulates from the water. The particulates that are removed can include viruses, bacteria and other disease causing organisms. The USEPA sets limits on the type and amount of polymer that a water system can add to the water. In addition to the EPA limits, the State of Washington also requires that all polymers used be certified safe for potable water used by an independent testing organization (NSF International). During treatment, Everett adds only NSF approved polymers and the levels used are far below the safe limits set by USEPA.

**Disinfection By-Products and Risks to Pregnancy** - Some recent health effects studies have suggested that high levels of trihalomethanes (THMs) in drinking water may be linked to increased risks for birth defects or miscarriage in pregnant women. THMs are one of the by-products that form when drinking water is chlorinated to kill disease-causing organisms. The studies suggest that levels of THMs above the new EPA safety standard of 80 parts per billion (ppb) may be of concern for pregnant women. In January 2002, the Environmental Working Group and the US Public Interest Research Group released a joint independent report listing all US water systems since 1995 that have or are currently providing water exceeding the new 80 ppb standard. The Everett water system is not on that list. Since required monitoring began nearly fifteen years ago, the THM content of Everett's water has been significantly below the new maximum allowable safe level of 80 ppm and currently contains less than half of the amount.

## Information from the EPA

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 (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health. 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's Safe Drinking Water Hotline at 1-800-426-4791. 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. EPA/CDC guidelines on appropriate means to lessen risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.



# 2005 WATER QUALITY ANALYSIS RESULTS FROM EVERETT AND THE WELLS OF CROSS VALLEY

## MICROBIAL - TURBIDITY - INORGANIC

Parameter	Units	CVWD WELLS				EVERETT SUPPLY		Complies	Major Source Listed by EPA
		Ideal Goal (MCLG)	Max Level (MCL)	Range or Other	Average Value	Range or Other	Average Value or Highest		
Turbidity	NTU	NA	TT	100%	0	100%	0.09	YES	Soil Erosion
Total Coliform	% Pos	0	5% Per/mo	0% - 0%	0.00%	0-1.8%	1.8%	YES	Naturally present in the environment
Fluoride	ppm	2	4	0 - 0	0	0.8 - 1.2	1.0	YES	CVWD -Dental additive, erosion of natural deposits EVERETT-Fluoride is added to your water in carefully controlled levels for dental health.
Nitrate (NO3)	ppm	10	10	0-3.33	1.2	0.049 - 0.125	0.097	YES	Erosion of natural deposits and animal wastes
Arsenic	ppm	ND	0.05	0 - 0.006	0.003	ND	ND	YES	Erosion of natural deposits; runoff from orchards; runoffs from glass & electronics production waste

## DISINFECTION BY-PRODUCTS

Parameter	Units	CVWD WELLS				EVERETT SUPPLY		Complies	Major Source Listed by EPA
		Ideal Goal (MCLG)	Max Level (MCL)	Range Detected	Average Value	Range Detected	Highest or Average Value		
Total Trihalomethanes	ppb	NA	80	12.0 - 17.2	13.2	29.9-46.7	37.5	YES	By-product of drinking water chlorination
Bromodichloromethane <sup>2</sup>	ppb	0	NR	3.8 - 4.3	4.0	1.2 - 2.1	1.7	YES	By-product of drinking water chlorination
Haloacetic Acids (5)	ppb	NA	60	3.3 - 9.5	5.6	7.9-35.0	26.9	YES	By-product of drinking water chlorination
Dichloroacetic Acid <sup>2</sup>	ppb	0	NR	1.4-5.2	2.7	4.3-17.7	11.7	YES	By-product of drinking water chlorination
Trichloroacetic Acid <sup>2</sup>	ppb	0	300	1.3 - 3.1	2.0	12.0 - 17.1	14.7	YES	By-product of drinking water chlorination

## LEAD AND COPPER SAMPLING

Parameter	Units	CROSS VALLEY WELLS				EVERETT WATER SUPPLY				Complies	Major Source Listed by EPA
		Ideal Goal	Action Level	90% Level	Homes Exceeding The Action Level	Ideal Goal	Action Level	90% Level	Homes Exceeding The Action Level		
Lead	ppb	0	15	0.03	0 of 40	0	15	3	3 of 178 (1.7%)	YES	Corrosion of household plumbing
Copper	ppm	1.3	1.3	0.29	0 of 40	1.3	1.3	0.068	NONE	YES	Corrosion of household plumbing

## MICROBIAL - TURBIDITY - INORGANIC

Parameter	Wells 1 & 9	Wells 3 & 8	Wells 5, 6 & 10	Wells 7 & 7A	Woodlane
Turbidity	ND	ND	ND	ND	ND
Total Coliform	0%	0%	0%	0%	0%
Fluoride	ND	ND	ND	ND	ND
Nitrate (NO3)	ND	2.06	ND	.61	3.33
Arsenic	.006	.004	.005	ND	.002
Lead	ND	ND	ND	ND	ND

## ADDITIONAL EVERETT WATER RESULTS

Parameter	Units	Ideal Level/ Goal (MCLG)	Range Detected	Average Value
Bromodichloroacetic Acid <sup>1</sup>	ppb	N/A <sup>3</sup>	1.3 - 2.4	1.8
Chloral Hydrate <sup>1</sup>	ppb	N/A <sup>3</sup>	1.3 - 9.9	4.2
Chloroform <sup>2</sup>	ppb	300	28.6 - 44.0	35.5
Dichloroacetone <sup>2</sup>	ppb	N/A <sup>3</sup>	0.8 - 1.6	1.1
1,1-Dichloropropanone <sup>1</sup>	ppb	N/A <sup>3</sup>	0 - 0.5	0
1,1,1-Trichloropropanone <sup>1</sup>	ppb	N/A <sup>3</sup>	0.8 - 3.0	1.7
Total Organic Hallides <sup>1</sup>	ppb	N/A <sup>3</sup>	67 - 130	98



## CRYPTOSPORIDIUM – GIARDIA LAMBLIA

Cryptosporidium is a microscopic organism that, when ingested, can result in diarrhea, fever, and other gastrointestinal symptoms. The organism is in all of Washington's rivers and streams and comes from animal waste in the watershed. Cryptosporidium is eliminated by effective treatment including filtration, sedimentation and disinfection. The Everett supply is tested regularly for the presence of Cryptosporidium and Giardia Lamblia. Neither organism has ever been detected. The District's groundwater supply in the south service area comes from deep wells. It is not at risk for Cryptosporidium contamination. All people are exposed to sources of disease and illness every day in many different ways. Typically, healthy people have normal immune systems that help prevent diseases from many sources, such as bacteria in food and air, contact with bacteria on surfaces, etc. For people who have a severely weakened immune system, the medical community encourages precautions to prevent infection because Cryptosporidium can cause chronic illness and can be life-threatening.

### REMINDER—JUNE thru SEPTEMBER 2006 MANDATORY SUMMER WATERING SCHEDULE

Even though we have only seen a glimpse of the sun so far this year, summer is on the way. You will only be allowed to water your lawns every third day. Your watering days are determined by the last two digits of your house number. If the last two digits of your house number end in:

#### 00 to 15 your watering days will be:

Jun 3, 6, 9, 12, 15, 18, 21, 24, 27, 30  
Jul 3, 6, 9, 12, 15, 18, 21, 24, 27, 30  
Aug 2, 5, 8, 11, 14, 17, 20, 23, 26, 29  
Sep 1, 4, 7, 10, 13, 16, 19, 22, 25, 28

#### 16 to 32 your watering days will be:

Jun 1, 4, 7, 10, 13, 16, 19, 22, 25, 28  
Jul 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31  
Aug 3, 6, 9, 12, 15, 18, 21, 24, 27, 30  
Sep 2, 5, 8, 11, 14, 17, 20, 23, 26, 29

#### 33 to 99 your watering days will be:

Jun 2, 5, 8, 11, 14, 17, 20, 23, 26, 29  
Jul 2, 5, 8, 11, 14, 17, 20, 23, 26, 29  
Aug 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31  
Sep 3, 6, 9, 12, 15, 18, 21, 24, 27, 30

### DISTRICT WATER RATES

Effective March 1, 2006 rates were increased by 7%. You may have noticed a small increase in your bill. \$38.94 is the minimum cost for 0–700 cubic feet of water usage. Consumption rates over 700 cu ft are:

701–2000 cu ft - \$ 1.47 per 100 Cu ft

2001–6000 cu ft - \$ 1.73 per 100 cu ft

Over 6000 cu ft - \$ 2.16 per 100 cu ft

100 cubic feet of water equals 748 gallons.



### Keeping Your Meter Clear

Now that summer has arrived and our "growing season" is in full swing, please pay close attention to the area around your meter.

Our district requires clearance of 2 feet circumference, and 6' high around your meter in order to accommodate any reading or work that may need to be done. If you receive a letter asking you to clear your meter, please do so. If your meter is not clear the next billing cycle after that letter you will be charged a \$30.00 access fee. Please make your meter part of your regular yard maintenance.



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