

City of Arlington Annual Water Quality Report

Water Testing Performed in 2014

PWS ID# 02950K



Continuing Our Commitment

The City of Arlington is pleased to report that your drinking water is of high quality and compliant with all state and federal drinking water laws. We are committed to delivering the best quality drinking water, and to that end, we make more than 16,000 water quality observations and tests every year. This edition of our annual water quality report summarizes only the key findings of testing completed from January through December 2014. For more information about this report, or for any questions relating to your drinking water, please call the Water Department at (360) 403-3526.



Where Does Our Water Come From?

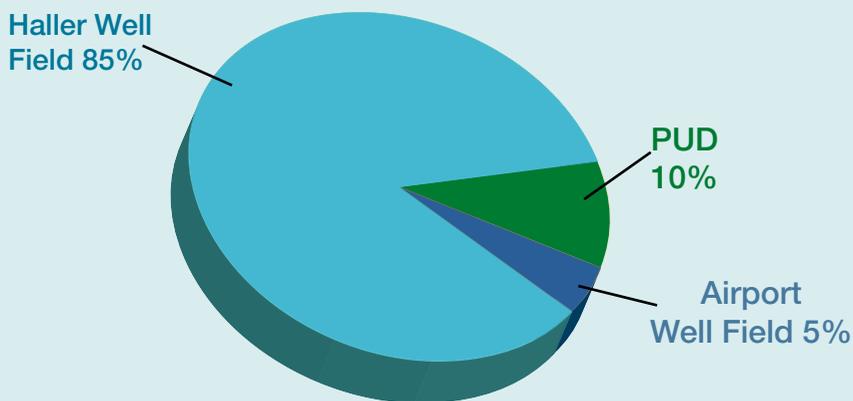
Three primary sources supply water to the Arlington service area. Arlington produces most of its water from the Haller and Airport well fields. The Haller well field naturally filters Stillaguamish River water by drawing it through the riverbank. The Airport well field draws groundwater from a deep aquifer. The origin of both these sources is precipitation that falls across the Stillaguamish Basin and infiltrates the ground surface.



from the City of Everett's Spada Reservoir near the headwaters of the Sultan River.

The graph shows how each source contributed to our total water production of 1,762 acre-feet in 2014.

The water we produce is blended with water the City purchases from its third source, Snohomish County Public Utility District (PUD). This water is obtained



ARLINGTON WATER SUPPLY 2014

HOW IS MY WATER TREATED AND PURIFIED?

Haller Well Field

Groundwater drawn from our well field located near the Stillaguamish River is treated in several steps at Arlington's water treatment facility. First, raw (untreated) water is pumped from the well field to the treatment plant, where a primary treatment chemical is added that causes small particles to stick together and form bigger particles called floc. Next, polymer is added to aid the filtering process and the water is passed through a clarifying filter where 60% to 70% of the floc is removed. The water then passes through a finishing filter where the remaining floc is taken out, and chlorine is added for disinfection. Finally, we add sodium hydroxide to adjust the pH level, making the water less corrosive to your pipes and plumbing fixtures.

Airport Well Field

Water drawn from our well near the Arlington Airport does not require filtration, but we do add chlorine for disinfection.

PUD

Drinking water purchased from Snohomish County PUD is treated at the City of Everett water treatment plant using a treatment process similar to the process used by Arlington. Everett adds fluoride to the water for enhanced dental protection.

Working Hard to Bring You the Best Water in the State — Efficiently



Under the Safe Drinking Water Act (SDWA), the U.S. Environmental Protection Agency (EPA) is responsible for setting national limits for hundreds of substances in drinking water, and also specifies various treatments that water systems must use to remove these substances.

Arlington Water Department continually monitors for these substances and reports our findings to the Washington Department of Health (DOH), who confirms you are receiving clean water. DOH records indicate ***we consistently provide you with clear, high quality water meeting stringent standards, and have done so for 14 consecutive years!***

For more information see:

www.doh.wa.gov/CommunityandEnvironment/DrinkingWater/SourceWater/RapidRateFiltration
and
www.doh.wa.gov/Portals/1/Documents/4200/wt0911.pdf.

This report you are holding conforms to the regulation under SDWA requiring water utilities to provide detailed water quality information to each of their customers annually. We are committed to providing you with this information about your water supply because ***customers who are well informed are our best allies in supporting improvements necessary to maintain the highest drinking water standards.***

Sampling Results for 2014

In 2014, the City collected hundreds of water samples and made thousands of measurements to test for biological, inorganic, volatile organic, synthetic organic or radioactive contaminants. The table below lists only those contaminants that were detected. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. All of the results shown here are less than Maximum Contaminant Level Goals (MCLGs) which are established with a safety margin for the protection of consumer health.

Since we purchase some of our water from the PUD, the table also includes data for the City of Everett water supply. This information is particularly useful to those in our service area that receive PUD water before it is blended with water pumped from our wells. This includes any service connections along Burn Rd and 186th Street.

DOH requires utilities to monitor for lead, copper and other contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Regulated Substances									
Samples were collected in finished water at our sources and/or throughout the distribution system				Arlington Water Department		Snohomish County PUD		Definitions of these terms are found at the bottom of this page	
Substance (units)	Year	MCL (MRDL)	MCLG (MRDLG)	Amount	Range	Amount	Range	Compliant?	Typical Sources
Arsenic (ppb)	2014	10	0	1	ND – 1	2	ND - 2	Yes	Erosion of natural deposits
Barium (ppm)	2014	2	2	0.009	0.008 – 0.01	0.01	ND - 0.01	Yes	Erosion of natural deposits, drilling fluids
Chlorine (ppm)	2014	(4)	(4)	0.79	0.10 – 1.75	0.57	0.20 – 0.79	Yes	Water additive used to control microbes
Chromium (ppm)	2014	100	100	4	ND - 4	ND	NA	Yes	Erosion of natural deposits
Fluoride (ppm)	2014	4	4	0.10	ND – 0.77	0.55	0.15 – 0.78	Yes	Water additive which promotes strong teeth; erosion of natural deposits
HAAs [Haloacetic Acids] (ppb)	2014	60	NA	12.6	6.6 – 34.7	34.3	0.0 – 37.6	Yes	By-product of drinking water disinfection
Nitrate (ppm)	2014	10	10	0.90	0.3 – 1.5	0.05	0.01 – 0.09	Yes	Runoff from fertilizer use; Leaching from septic tanks, and animal wastes; Erosion
TTHMs [Total Trihalomethanes] (ppb)	2014	80	NA	17.7	9.5 – 35.8	42.1	2.7 - 55.4	Yes	By-product of drinking water disinfection
Turbidity (NTU) ¹	2014	TT	NA	0.055	0.022 – 0.055	0.11	ND – 0.11	Yes	Soil runoff, sediment

Lead and Copper									
Tap water samples were collected for lead and copper analyses from homes throughout the service areas				Arlington Water Department		Snohomish County PUD		Definitions of these terms are found at the bottom of this page	
Substance (units)	Year ² sampled	AL	MCLG	90th Percentile	Homes Above AL/ Total Homes Sampled	90th Percentile	Homes Above AL/ Total Homes Sampled	Compliant?	Typical Sources
Copper (ppm)	2012	1.3	1.3	0.430	0 / 31	0.109	0 / 108	Yes	Corrosion of household plumbing Erosion of natural deposits
Lead (ppb)	2012	15	0	3	0 / 31	2	0 / 108	Yes	Corrosion of household plumbing Erosion of natural deposits

Unregulated Substances ³									
Samples were collected in finished water at our sources and at one location in the distribution system				Arlington Water Department		Snohomish County PUD		Definitions of these terms are found at the bottom of this page	
Substance (units)	Year sampled	Detection Limit		Amount Detected	Range Low-High	Amount Detected	Range Low-High	Compliant?	Typical Sources
Chlorate (ppb)	2013-2014	20		69.1	44 – 110	44.9	34 – 67	NA	Degradation of disinfectant
Chromium-6 (ppb)	2013-2014	0.03		0.50	0.13 – 3.04	0.25	0.22– 0.30	NA	Erosion of natural deposits; industrial discharges
Strontium (ppb)	2013-2014	0.3		62.5	36 – 140	33.5	14 – 102	NA	Erosion of natural and pipe deposits
Vanadium (ppb)	2013-2014	0.2		0.57	0.2 – 1.5	ND	ND	NA	Erosion of natural and pipe deposits

Footnotes

¹ Turbidity, a measure of the cloudiness of water, is monitored because it is a good indicator of the effectiveness of the filtration system.

² Lead and copper samples are collected from area homes every 3 years. Samples in both the Arlington and PUD service areas were collected in 2012, and are scheduled for collection again 2015.

³ These substances are not yet regulated in drinking water, but monitoring was required under the third round of the Unregulated Contaminant Monitoring Rule. Only the listed parameters were detected at the ranges given. These or other parameters may be regulated in the future.

Table Definitions

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

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.

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.

MRDL (Maximum Residual Disinfectant Level): 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 (e.g. chlorine, chloramines, chlorine dioxide).

MRDLG (Maximum Residual Disinfectant Level Goal): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not

reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: Not applicable.

ND: Not detected.

NTU (Nephelometric Turbidity Units): A measure of the clarity, cloudiness, or turbidity, of water.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

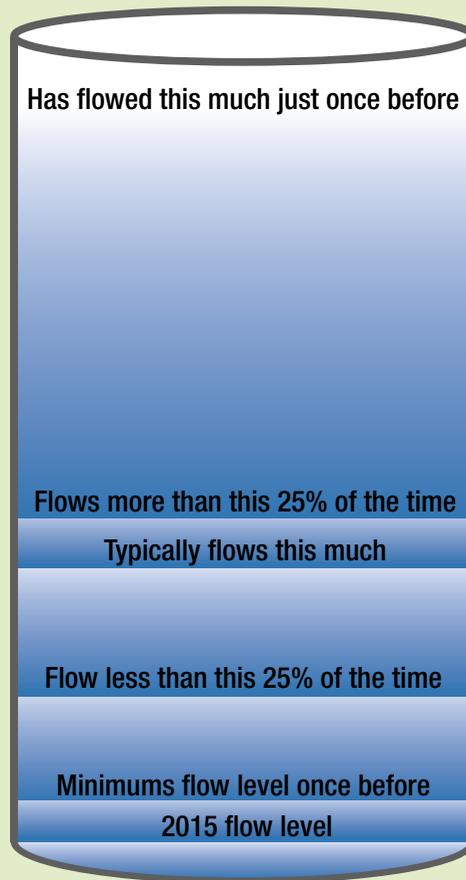
TT (Treatment Technique): A required process intended to reduce the level of a contaminant in drinking water.

90th Percentile: Out of every 10 homes sampled, 9 had lead and copper concentrations at or below this level.

Important Health 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. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

About the Drought



The graphic shows the historic condition of the Stilly in June. We are in unprecedented territory. We think riverbank filtration at our Haller wells will serve us well regardless of river stage, but it will be a test for us. Our multiple types and sources of supply (see page 1) should help us be resilient and sustain unrestricted operations.

However, customers are urged to use their water wisely and efficiently, especially their outdoor use. Follow your lawn watering calendar and water deeply every 3 days. If restrictions do become necessary, we will contact customers via utility bills, web site, and the press.

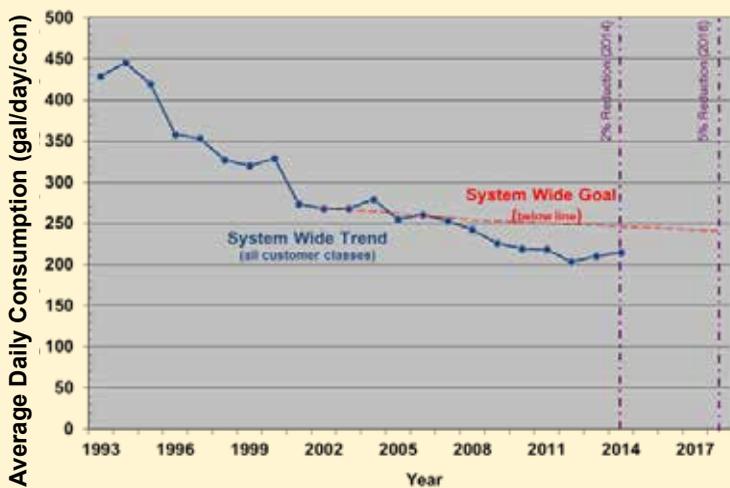
Water Use Efficiency Information

Arlington is making great progress toward goals required by the state's 2007 Water Use Efficiency (WUE) Rule. The City's WUE goals were developed after a public hearing and City Council approval of the October 2011 Water System Plan.

2014 Arlington Water Use Statistics

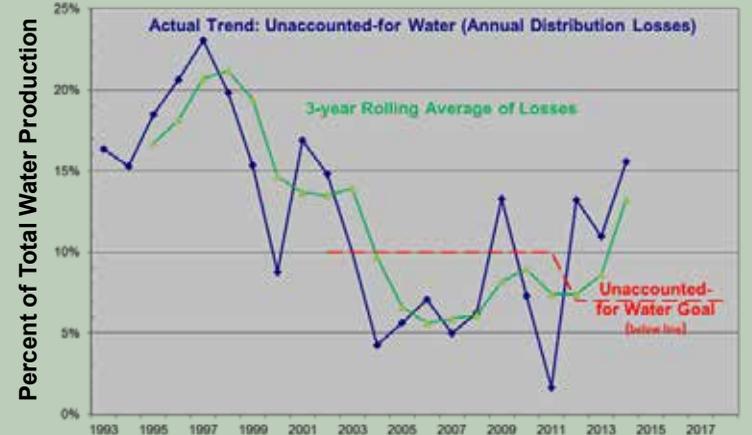
Total water into the system (gallons)	574,120,924
Total authorized, quantified uses (gallons)	484,631,739
Unauthorized and/or unquantified uses and leaks (gallons)	89,489,185
Unauthorized and/or unquantified uses and leaks (percent)	15.6%

Goal: Achieve additional system-wide average water use reduction of 2 percent by the year 2014, and 5 percent by the year 2018, with 2008 as the base year.



When it comes to supplying water to a growing community, wise and efficient use of our existing water sources is much cheaper than the development of new supplies. Results indicate our customers are increasingly conscientious of their water use. Water consumption has dropped more than 11% by 2014 to 215 gallons/day/connection. We are on track

for meeting our 2018 goal of 230 gal/day/connection. With these efforts in place, the City's savings from 2002 to 2025 will exceed 122 million gallons.



Goal: Reduce unaccounted for water to 7 percent or less.

The WUE Rule requires that we account for at least 90% of the water we make, but we are holding ourselves to 93%--with unaccounted for "losses" from our distribution system at less than 7%. We exceeded this level for the last 3 years with losses up to 15%. Staff is investigating this increase. Possible sources include water main leaks, water theft, meter calibration and accounting issues. Our 3-year rolling average of 13% losses exceeds the State limit of 10%. We have prepared an action plan to correct our water losses.

Substances That May Be in Your Drinking Water



To ensure that tap water is safe to drink, the Department of Health and EPA prescribe regulations that limit the amount of certain contaminants in water provided by public water

systems. The Food and Drug Administration (FDA) and the Washington Department of Agriculture regulations establish limits for contaminants in bottled water that 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.

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 can pick up substances resulting from the presence of animals or from human activity. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791).

Contaminants That May Be Present In Source Water

- **Microbes** — viruses, parasites and bacteria, from sewage treatment plants, septic systems, pets, livestock and wildlife
- **Inorganic materials** — salts and metals, naturally occurring or from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and farming
- **Pesticides and herbicides** — from agriculture, urban stormwater runoff, and residential uses
- **Organic Compounds** — synthetic and volatile organic compounds from industrial processes, petroleum production, gas stations, urban stormwater runoff, and septic systems
- **Radioactive contaminants** — naturally-occurring or the result of oil and gas production and mining activities

Questions and Answers



I don't have any water.

If your water bill has not been paid: call Utility Billing at 360-403-3421.

Otherwise, call Public Works Administration at 360-403-3526.

We'll need to know your name, phone number, address, how long have you been without water. A water service specialist will contact you to solve the problem.

I need my water shut off.

If you are stopping service: call Utility Billing at 360-403-3421.

If you are doing repairs: call Public Works Administration at 360-403-3526. We'll need your name, phone number, address and when you want the water shut off. A water service specialist will shut the water off, or call you to arrange a time to do so.

I need my water turned on.

If you are moving in: call Utility Billing at 360-403-3421.

If you are doing repairs: call Public Works Administration at 360-403-3526. We'll need your name, phone number, address, and when you want the water turned on. A water service specialist will turn the water on, or will call you to arrange a time to do so.

I need to report a leak.

Call Public Works Administration at 360-403-3526, or the emergency pager at 360-386-5926. Tell us your name, phone number, and the address of the leak.

If the leak is located:

In the house: you will need to call a plumber, but we will send a water service specialist to turn the water off if needed.

At the meter box: we will send a water service specialist out to investigate and repair the leak. They will call you with the results.

In the street: we will send a water service specialist out to investigate immediately. Let us know if it is gushing or trickling down the street, gushing up in the air, and/or associated with a hydrant break or construction accident.

Is there fluoride in my water?

Water we produce has low natural concentrations of fluoride, while water we purchase is "fully fluoridated" for dental protection by the City of Everett. While primarily distributed in distinct zones, these sources do blend to create a small area of moderate fluoride concentrations. Only services east of SR 9 and south of about 200th Street receive appreciable fluoride. The City's fluoride brochure compares this range of fluoride levels to the dental needs for children promoted by the ADA. Copies are available on-line, at Public Works Administration, or where utility bills are paid at City Hall.

Community Participation

You are invited to participate in our public city council meetings and voice your concerns about your drinking water. Arlington City Council meets the first and third Monday of each month beginning at 7 p.m. at the Council Chambers, 110 E. Third Street, Arlington, WA (enter off of Olympic Avenue near City Hall). For meeting information, call City Hall at (360) 403-3421, or visit our Web site at www.arlingtonwa.gov.

This Could Be Your Last Issue!!

Actually, we have to—and want to—provide you with this once a year Consumer Confidence Report on the quality of the water your family enjoys every day. However, the law now provides the opportunity to provide it to you electronically, and you have the opportunity to get the information you need in a format to your liking. Please watch your mail later this year—probably your utility bill—for the opportunity to specify your preference:

- ✓ Receive a paper copy in the mail
- ✓ Type a direct link found on my water bill in my web browser
- ✓ Click a direct link in an e-mail notifying me of my bill
- ✓ Receive a pdf attachment to an e-mail
- ✓ I'm a rental customer that doesn't pay a utility bill. Send me a copy as I've indicated here.



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