

WATER QUALITY REPORT

2016 Consumer Confidence Report



Did you know that over 30% of water used by the average American household is devoted to outdoor water use, such as watering lawns and gardens? Also, more than 50% of residential irrigation water is lost due to evaporation, runoff, overwatering or improper system design/installation/maintenance.

Below are some tips on reducing outdoor water use to ensure a sustainable and reliable water source for the future:

- Don't over water your lawn. Lawns only need 1 inch of water per week.
- Water lawn or garden early in the morning during the coolest part of the day, to minimize evaporation.

- Check sprinkler systems and timing devices regularly to ensure they operate properly.
- Raise your lawn mower cutting height.
 Longer grass blades help shade each other,
 reduce evaporation and inhibit weed growth.
- Adjust sprinklers so only your lawn is watered and not the house, sidewalk, or street.

Remember, efficiency is more than conservation, it is smart water management. Know what you need, know what you use, use only what you need.



AIRWAY HEIGHTS WATER SOURCES

We are pleased to present to you the 2016 Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water.

We want you to understand the efforts we make to continually improve and protect our water resources. We are committed to ensuring the quality of your water. Our water comes from several sources; the Wanapum and Grande Ronde aquifers, the Paleo Channel, wells and an intertie with the City of Spokane. Well #1 (SO8) and Well #4 (SO8) are located east of Lawson and north of McFarlane. Well #8 (S10) is located east of Garfield and north of 21st Avenue. We also now have Well #9 (S11), a water source at Lundstrom Street and 21st Avenue. Parkwest Well (SO9) is located on Craig Road, but this well is only used in an emergency. All of our wells are groundwater wells.

This report is provided to all our customers. It describes your drinking water quality for the period of January 1 – December 31, 2016. Your water purveyor is committed to supplying safe water that meets or surpasses state and federal standards and achieves the highest standards of customer service. This institution is an equal opportunity provider and employer.



WATER CONSERVATION KITS

Do Your Part, Be Water Smart

Indoor/Outdoor Water Conservation kits are available at City Hall, at no cost to you.

Indoor/Outdoor water saver kits: fix leaks at garden hose ends; reseal hose connections; use less water with 4 position nozzle; reduce lawn watering, reduce flow from showers; reduce flow from faucets; use less water per toilet flush; detect toilet tank leaks and include:

- Multi-position garden hose nozzle
- · Water faucet aerator

- · Water saver showerhead
- Toilet tank bank

Last year we distributed several hundred kits to our residents. Here is the coupon for your free kit!

COUPON

Good for one

FREE

Indoor/Outdoor Conservation Kit

While Supplies Last

Present this coupon at City Hall 1208 S Lundstrom

2016 TEST RESULTS CITY OF AIRWAY HEIGHTS

			2016 TES	T RESU	JLTS			
		Mic	robiologic	al Conf	taminants			
Contaminant Violation Level Unit MCLG MCL Y/N Detected Measurement								
Total Coliform Bacteria (8 samples per month)	N	ND	n/a	0	(Systems that collect 40 or more samples per month) 5% of monthly samples are positive; (Systems that collect fewer than 40 samples per month) 1 positive monthly sample	Naturally present in the environment		
Fecal Coliform and E.coli	N	ND	n/a	0	A routine sample and repeat sample are total coliform positive, and one is also fecal coliform or <i>E. coli</i> positive	Human and animal fecal waste		
Turbidity Area S10	N	0.175	n/a	n/a	TT	Soil runoff		

Area S10									
			2016 TES	ST RESU	JLTS				
			Inorganic	Contam	inants	6			
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination			
Arsenic S08	N	0.0021	mg/L	n/a	.01	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes			
Arsenic S11	N	0.00115	mg/L	n/a	.01	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes			
Barium S08	N	.0423	mg/L	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits			
Barium S11	N	0.0513	mg/L	2	2	Discharge of drilling wastes; discharge from metal refiner erosion of natural deposits			
Fluoride S11	N	0.144	mg/L	4	4	Erosion of natural deposits; water additive which promot strong teeth; discharge from fertilizer and aluminum factor			
Nitrate (as Nitrogen) SO8	N	3.76	mg/L	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Nitrate (as Nitrogen) SO11	N	2.75	mg/L	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Nitrate (as Nitrogen) SO10	N	ND	mg/L	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Chloride S08	N	8.28	mg/L	n/a	250	Erosion of natural deposits			
Chloride S11	N	22.4	mg/L	n/a	250	Erosion of natural deposits			
Sulfate S08	N	8.44	mg/L	n/a	250	Erosion of natural deposits			
Sulfate S11	N	10.0	mg/L	n/a	250	Erosion of natural deposits			
Zinc S08	N	.0411	mg/L	n/a	5	Erosion of natural deposits			
Zinc S11	N	ND	mg/L	n/a	5	Erosion of natural deposits			
ТНМ	N	11.1	ug/L	n/a	80	Disinfection By-Product			
HAAS	N	ND	ug/L	n/a	60	Disinfection By-Product			

Contaminant	Units	Date Sampled	90 th Percentile (d)		Positive		MCL	MCLG	MAJOR SOURCES
Copper (c)	mg/L	Aug-13	<0.2	0	20	20	TT, AL= 1.3	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching
Lead (c)	μg/L	Aug-13	<0.002	0	20	20	TT, AL = 15	0	Corrosion of household plumbing systems; Erosion of natural deposits

A total of 96 routine samples were collected and tested in 2016. Data presented, if not from 2016, is from the most recent testing completed in accordance with

regulations.

As you can see from the items listed in the Test Results table, our system had no violations. We are proud that your drinking water meets or exceeds all Federal and State requirements.

We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water IS SAFE at these levels.

To help you better understand the terms in this report, we provide the following definitions:

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

MAXIMUM CONTAMINANT LEVEL

(MCL): 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 (MCLG): The "Goal" (MCLG) is 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.

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.

PICOCURIES PER LITER (PCI/L): Picocuries per liter is a measure of the radioactivity in water.

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

VARIANCES & EXEMPTIONS (V&E): State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Microbiological Contaminants:

TOTAL COLIFORM: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful bacteria may be present. If coliforms are found in more samples than allowed, this is a warning of potential problems.

FECAL COLIFORMS/E COLI: Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches or other symptoms. They may pose a special health risk for infants, young children and people with severely compromised immune systems.

TURBIDITY: Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses and parasites that can cause symptoms such as nausea.

Inorganic Contaminants:

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. Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.

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 doctor.

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 defects in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

2016 TEST RESULTS CITY OF AIRWAY HEIGHTS

		Mic	robiologic	al Con	tamina	ants				
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG		MCL	Likely Source of Contamination			
Total Coliform Bacteria (8 samples per month)	N	ND	n/a	0	per me	ns that collect 40 or more samples onth) 5% of monthly samples are e; (Systems that collect fewer than ples per month) 1 positive monthly sample	Naturally present in the environment			
Fecal Coliform and E.coli	N	ND	n/a	0	total o	ne sample and repeat sample are coliform positive, and one is also cal coliform or <i>E. coli</i> positive	Human and animal fecal waste			
Turbidity Area S10	N	0.175	n/a	n/a		TT	Soil runoff			
			2016 TES	ST RES	JLTS					
			Inorganic	Contam	inants	3				
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination				
Arsenic S08	N	0.0021	mg/L	n/a	.01	Erosion of natural deposits; runoff from orchards; runoff fror glass and electronics production wastes				
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Nitrate (as Nitrogen) SO8	N	3.76	mg/L	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits				
Nitrate (as Nitrogen) SO11	N	2.75	mg/L	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits				
Nitrate (as Nitrogen) SO10	N	ND	mg/L	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits				
Chloride S08	N	8.28	mg/L	n/a	250	Erosion of natural de	oosits			

2016 TEST RESULTS

Contaminant	Units	Date Sampled	Percentile		Positive	of	MCL	MCLG	MAJOR SOURCES
Copper (c)	mg/L	Aug-13	<0.2	0	20	20	TT, AL= 1.3	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching
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Sulfata SOR

Sulfate S1

Zinc S11

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SPOKANE WATER SOURCE

With the City of Spokane as a water source through an intertie, we are required to provide testing results for all sources. The testing information and table below is provided by the City of Spokane for their water system. This report provides a summary of the drinking water monitoring conducted during 2016, as well as a comprehensive overview of past monitoring. A complete copy of the City of Spokane's Water Quality Report can be found on our website, www.cawh.org.

The City of Spokane's water is of very high quality. Many different tests are conducted at varying intervals to confirm that the City's drinking water meets Washington State and federal EPA drinking water quality standards. The City drinking water supply, to date, has consistently met all state and federal standards. This report is meant to provide consumers and other interested parties with insight into what analytical tests have been conducted, and in some cases, substances that have been detected. The state and federal Maximum Contaminant Level (MCL) information is provided as a risk benchmark.

This report also summarizes the amount of water the City used in 2016, and documents some indicators to show the progress being made to meet conservation goals adopted by the City in its Water Stewardship Strategic Plan.

All of the City of Spokane's drinking water comes from the Spokane Valley-Rathdrum Prairie Aquifer – designated a sole source aquifer in 1978. The Spokane Valley-Rathdrum Prairie Aquifer slowly flows through two different states and a number of different counties and is the source water for a large number of water purveyors, including the City of Spokane. This water and any contaminants freely move across political boundaries. Many groups and/or private individuals may claim this water to be used for diverse purposes. Some of these competing interests include (but are not limited to) drinking water rights, irrigation, fisheries, hydroelectric power and industrial processes. The Spokane Aguifer (that portion of the larger aguifer lying within Washington State) and the Spokane River exchange water. While the aquifer contains a large volume of water, many factors play into the volume of water in the Spokane River, complicating the management of these resources. Some of these factors include (but are not limited

SOURCE PROTECTION INFORMATION

We compiled Source Water Assessment Program (SWAP) data for all community PWSs in Washington, SWAP data for your PWS is online at:

www.doh.wa.gov/CommunityandEnvironment/ DrinkingWater/SourceWaterProtection/ Assessment.aspx.

If you don't have access to the Web, we encourage you to use the Internet service available through the public library system.

to) pumping for irritation and potable water, hydroelectric dam operations and the variations of weather and precipitation. The rates and locations of exchange between the aguifer and the Spokane River have been reexamined as part of the Bi-State Aquifer Study. In January 2008, the states of Washington and Idaho announced signing a Memorandum of Agreement concerning the "...continued coordination involving the maintenance and improvement of the technical tools developed in a bi-state water study." Discussions to agree on how to utilize these technical tools to manage this valuable recourse will continue.

Due to the porous nature of the ground surface and the number of potential contaminant sources, the possibility of contaminating the aguifer exists if good housekeeping measures are not followed for all activity over and adjacent to the aquifer. The physical and economic health of our area depends on the quality of our drinking water. In order to safeguard water quality, the City continues its efforts to make available to the community



information about, and appropriate disposal mechanisms for, dangerous wastes that are generated in the Aquifer Sensitive Area. The City, in cooperation with other local governments and the Spokane Aquifer Joint Board, continues to work toward strengthening regulations for the storage and use of critical materials to safeguard the local water supply.

For further information regarding the City of Spokane's drinking water, and to view their full report for 2016, please contact us at (509) 244-5429 or: City of Spokane Water Department (509) 625-7800, www.spokanewater.org

For additional information regarding the City of Spokane's drinking water or related issues:

City of Spokane Water Department (509) 625-7800 | www.spokanewater.org

City of Spokane- Environmental Programs (509) 625-6570 | www.greenspokane.org

Spokane County - Water Resources (509) 477-3604 | www.spokanecounty.org/wqmp

Spokane Regional Health District -Environmental Health Div. (509) 324-1560 www.srhd.org/services/environment.asp

Washington State Department of Health -Eastern Regional Office (Drinking Water) (509) 329-2100 www.doh.wa.gov/YouandYourFamily/ HealthyHome/DrinkingWater

Washington State Department of **Ecology- Eastern Regional Office** (509) 329-3400 | www.ecy.wa.gov

U.S. EPA Safe Drinking Water (800) 426-4791 | www.epa.gov/your-drinking-water

Appendix V - Drinking Water Testing Summar	y for 2016		ÇI	TY OF SPOKANE,	D IN DRINKING WATER & HYDROEL	ECTRIC SERVICE	S		
SOURCE WATER TESTING CONTAMINANT	Units	Highest Average	Detected Maximum	Detected min.	Number Positive Samples	Number of Samples	MCL	MCLG	MAJOR SOURCES
Arsenie	µg/L	(a)	5.1	3,5	2	2	10	0	Erosion of natural deposits; Racoff from orchards; Runoff from glass and electronics production wastes
Nitrate	mgL	(a)	3.19	0.76	10	10	10	10	Runoff from fertilizer use: Leaching from reptic tasks, senage; Erosion of outural deposits
Gross Alpha	pCi/L	(a)	1.6	< 1,0	2	3	15	0	Ecosists of natural deposits
Combined Radium 226 and 228 (b)	pCi/L	(a)	1,6	<0.5	2	3	5	0	Erosion of natural deposits
DISTRIBUTION SYSTEM TESTING			Detected	Detected	Number Positive	Number of			
CONTAMINANT	Units	LRAA	Maximum	min.	Samples	Samples	MCL	MCLG	MAJOR SOURCES
Disinfection Byproducts - TTHMs [Total Trihalomethanes]	μg/L	4.03	3.94	0.51	7	\$	80	0	By-product of drinking water chlorination
CONTAMINANT		Highest Perce	ent Detected	Sample Date	Violation	Me	CL	MCLG	
		date sampled	90th Percentile (d)	Number of Sites exceeding AL	Number Positive Samples	1	MCL	MCLG	
Copper (c)	mg/L	Aug-15	0.06	0	58	58	TT, AL= 1.3	1.3	Corrosion of household plumbing systems: Ecosion of natural deposits: Leaching from wood preservatives
Lead (c)	µg/L	Aug-15	5.00	0	57	58	TT, AL= 15	0	Corresion of household plumbing systems; Erosion of natural deposits



1208 S Lundstrom Street Airway Heights, WA 99001

Phone: (509) 244-5578 Fax: (509) 244-3413

www.cawh.org

Please call our office at (509) 244-5429 if you have questions.

We work around the clock to provide top quality water to every tap. We ask that all of our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

Our Water.

Our Future.

Our **Priority**.

2016 ANNUAL
WATER QUALITY
REPORT

WATER ...

EVERY DROP COUNTS

Did you know that an average American home can waste

from U.S. homes each year. That's why the City of Airway

Heights reminds you to check your plumbing fixtures and

If you feel your usage appears higher than normal, please

call City Hall at (509) 244-5578 to request our services.

irrigation systems every year to reduce the potential losses.

running toilets, dripping faucets and other household leaks?

more than 10,000 gallons of water every year due to

Nationwide, more than 1 trillion gallons of water leak

City of Airway Heights Municipal Code 13.04.181 Restrictions on Irrigation

Irrigation shall be prohibited between the hours of 10:00 a.m. and 6:00 p.m. during the months of June, July, August and September.

IMPORTANT HEALTH INFORMATION

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).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some eiderly, 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 and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).