



# Annual Drinking Water Quality Report 2014

We are very pleased to provide this year's Annual Water Quality Report. This report shows our water quality and what it means to you our customer. It is designed to help keep you informed about the excellent water and services we have delivered to you over the past years.

## JOIN US

You can also learn more by attending one of our regularly scheduled City Council meetings.

They are held on the first and third Tuesday of each month at 7:00 pm at Centerville City Hall located at 250 North Main. Please check the City Council agenda prior to attending because our water system is not discussed at every meeting.

## CONTACT US

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Go to our website to find the link to visit us on Facebook and Twitter.



## Where Do We Get Our Water ?

In 2014, water pumped from our underground wells provided 336.18 million gallons, which was 68% of our drinking water. Centerville City also used approximately 160.74 million gallons of water, or 32%, from Weber Basin, which is treated surface water from the Weber River drainage.

## Certified Water Operators

Centerville City's water operators are certified in water distribution and have been trained in backflow prevention. What does this mean to you as the water customer?

Our personnel have been trained and know how to make repairs, keep contaminated water out of our water system and handle problems as they arise.

The City's crew maintains approximately 80 miles of water mains and 872 fire hydrants. Centerville City delivered water to 4715 customer accounts serving a population of 16,000 in 2014.

For the fiscal year 2014, our Water Department's expenditures were \$2,016,54.00. Much was spent upgrading the water system to meet the needs of our customers for today as well as the future.

## Compliance with State and Federal EPA Rules and Regulations

Centerville City is proud to provide a sustainable safe water supply to our water customers which either meets or exceeds all state and federal regulations.

## Emergency Response Plan

Centerville City has an emergency plan to ensure responses to emergencies that affect Centerville's citizens and businesses are timely, effective and appropriate. Ultimately the goal of this plan is to provide for timely repair of Centerville City's vital infrastructure during emergency situations thereby aiding in the protection of health, safety and welfare of the citizens.

## Protecting Your Water Resources

Centerville has a Drinking Water Source Protection Plan. What is a Source Protection Plan? It identifies potential sources of contamination and source protection areas, including many homes. Many of our sources are in remote and protected locations where there is very little potential for source contamination. Other sources are within the range and influence of private homes, so we ask everyone to be careful with what is discharged around your yard or street such as oil, antifreeze, fertilizer, pesticides, etc. The Drinking Water Source Protection Plan is available for review at the Public Works Building located at 655 North 1250 West.



# Test Results

Centerville City routinely monitors for constituents in our drinking water in accordance with the Federal and Utah State laws. The following table shows the results of our monitoring for the period of January 1st to December 31st, 2014. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

Contaminant	VIOL Y/N	Level Detected ND/Low-High	Unit Measurement	MCLG	MCL	Date	Likely Source of Contamination
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## Microbiological Contaminants

Total Coliform Bacteria	N	ND	N/A	0	Presence of coliform bacteria in 5% of monthly samples	2014	Naturally present in the environment
Fecal coliform and E.coli	N	ND	N/A	0	If a routine sample and repeat sample are total coliform positive, and one is also fecal coliform or E. coli positive	2014	Human and animal fecal waste
Turbidity for Ground Water	N	.02-2.9	NTU	N/A	5	2014	Soil runoff

## Inorganic Contaminants

Arsenic	N	ND-1.1	ppb	N/A	10	2014	Erosion of natural deposits; runoff from orchards
Barium	N	.06-.1	ppm	2	2	2014	Erosion of natural deposits; discharge of drilling wastes
Chromium	N	ND-10	ppb	100	100	2014	Discharge from steel and pulp mills; erosion of natural deposits
Copper a.90% results b.# of sites that exceed the AL	N	a. 973 b.0	ppb	1300	AL=1300	2014	Corrosion of household plumbing systems; erosion of natural deposits
Fluoride	N	ND-900	ppb	4000	4000	2014	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead a.90% results b.# of sites that exceed the AL	N	a. 5300 b.0	ppt	0	AL=15000	2014	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen)	N	600-2700	ppb	10000	10000	2014	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	N	1-3300	ppt	50000	50000	2014	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.
Sodium	N	13700-80000	ppt	None set by EPA	None set by EPA	2014	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills.
Sulfate	N	17-44	ppm	1000	1000	2014	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills, runoff from cropland
TDS (Total Dissolved solids)	N	180-432	ppm	2000	2000	2014	Erosion of natural deposits

## Disinfection By-products

TTHM [Total trihalomethanes]	N	2600-35700	ppt	0	80000	2014	By-product of drinking water disinfection
Haloacetic Acids	N	ND - 10300	ppt	0	60000	2014	By-product of drinking water disinfection
Chlorine	N	700	ppb	4000	4000	2014	Water additive used to control microbes

## Radioactive Contaminants

Alpha emitters	N	0.4-8.2	pCi/1	0	15	2014	Erosion of natural deposits
Combined	N	0.5-2.4	pCi/1	0	5	2014	Erosion of natural deposits
Radium 226	N	.07-.33	pCi/1	0	5	2014	Erosion of natural deposits

# SAFE

As you can see on the table above, we test for many constituents that could potentially be in your drinking water. This regular testing enables us to monitor your water to ensure your drinking water is safe. It also allows us to immediately address any problems that may arise. The Constituent Table shows that all constituents detected in your drinking water comply with the many Federal and State requirements. The EPA has determined that your drinking water IS SAFE at these levels.



# Table Definitions

You might not be familiar with many of the terms and abbreviations in the preceding table. To help you better understand these terms, we've provided the following definitions:

**ND/Low - High** - For water systems that have multiple sources of water, the Utah Division of Drinking Water has given water systems the option of listing the test results of the constituents in one table, instead of multiple tables. To accomplish this, the lowest and highest values detected in the multiple sources are recorded in the same space in the report table.

**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 (ug/l)** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**(nanograms/l)** - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

**Picocuries per liter (pCi/L)** - picocuries per liter is a measure of the radioactivity in water.

**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.

**Date-** Because of required sampling time frames, i.e., yearly, 3 years, 4 years and 6 years, sampling dates may seem outdated.

# 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. Centerville City 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 <http://www.epa.gov/safewater/lead>.

# Routine Water Sampling

Throughout 2014, we tested 15 routine samples per month for coliform bacteria. In that time, none of the samples came back positive for the bacteria. Further regulations now require that public water testing positive for coliform bacteria must be further analyzed for fecal coliform bacteria. Fecal coliform are present only in human and animal waste. Because these bacteria can cause illness, it is unacceptable for fecal coliform to be present in water at any concentration. Our tests indicate no fecal coliform is present in our drinking water.

# Fire Protection

Fire protection for you and your neighbors depends on easily found fire hydrants. They are one of the most vital resources we have for fighting fires. Firefighting equipment is useless without an adequate water supply. Fire hydrants provide us with the only reliable and continuous source of water to fight fires. If the fire department can't quickly find the fire hydrants, it wastes crucial time in fighting the fire. We are asking citizens to cooperate by keeping fire hydrants clear of bushes, plants, trees, snow or any other obstructions. The State Fire Code states that a minimum of three feet circumference around a hydrant must be maintained. Please help our fire fighters by keeping the hydrants clear and visible. If you are not able to clear the obstruction or it appears that a fire hydrant has been damaged, please contact Centerville City Public Works at 801-292-8232.

**Vehicles parked within 15 feet of a fire hydrant are in violation of state law!**

# CHURCH WELL FILL STATION

Since 2003 the Church Well Fill Station has given our water customers the option of either Non-Fluoridated/ Chlorinated or Non Fluoridated/ Non-Chlorinated water at the push of a button. Located on 200 East 200 South, northeast corner, it is available 24 hrs /day. This water is tested on a regular basis and meets all Federal and State requirements. The well received three awards in 2008, two from the Intermountain AWWA section, Best of the Best Ground water taste test and Best of the Best water taste test which includes springs, surface and ground water. It also won a second place award for its taste at the Rural Water Association of Utah conference.

CHURCH WELL 2014 USAGE	
NON-FLUORIDATED/ CHLORINATED	NON-FLUORIDATED & NON CHLORINATED
43,000 gallons used	590,000 gallons used

## FREE WATER CHECK

### ● Customize your irrigation system

You may conserve water by customizing your irrigation schedule for your landscape by learning what type of soil you have and how to make your irrigation system more efficient. Get a free water check from Weber Basin and you will learn how to efficiently water your landscape so you can have an attractive landscape while saving water and money!

### ● Commercial, Industrial, Institutional Water Check

Weber Basin Water employee walks through the entire irrigation system with the landscape maintenance staff. Each irrigation zone is turned on and examined for problems. Once the maintenance staff repairs the problems and tunes the system up, the Weber Basin Water employee will return to do a follow-up walk through and perform catch cup test on enough of the zones to represent the entire system. A report is provided with results, suggestions and scheduling recommendations.

### ● Residential Water Check

A water check is a series of tests on the irrigation system, performed by Weber Basin Water employees, to determine how much water the irrigation system is putting out (precipitation rate), the infiltration of water into the soil, and the distribution uniformity (evenness of the application of water) the Weber Basin Water employee also checks soil type, root depth and sprinkler pressure. The entire process takes about one hour and the homeowner is left with a customized irrigation schedule and recommendations to better the system.

## Learn More About the Free Water Check Program

The Water Check Program is a FREE service and is offered from May through August. To schedule an appointment call 801-771-1677 in Davis & Weber Counties. You can find more information about Weber Basin's free classes, outdoor water-saving, and landscaping by going to the following website: [www.weberbasin.com](http://www.weberbasin.com)

## Help Prevent Cross Connection Contamination

There are many connections to our water distribution system. When connections are properly installed and maintained, the concerns are very minimal. However, unapproved and improper piping changes or connections can adversely affect not only the availability, but also the quality of the water.

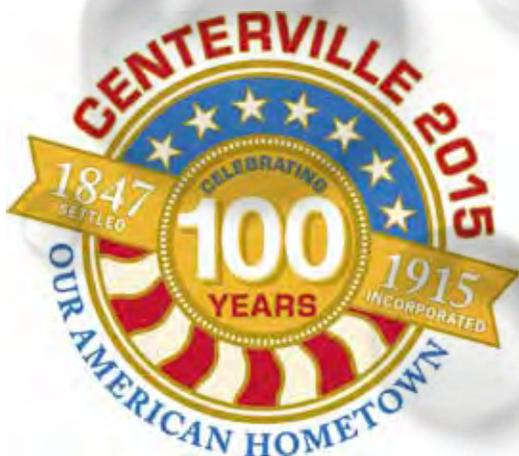
## What Happens If a Cross Connection Exists?

A cross connection may let polluted water or even chemicals mingle into the water supply system when not properly protected. This not only compromises the water quality but can also affect your health. So, what can you do? Do not make or allow improper connections at your homes. Even that unprotected garden hose lying in the puddle next to the driveway is a cross connection. If using city culinary water for your lawn sprinkler system, be sure there is a properly functioning backflow device, to prevent back siphoning of fertilizers or herbicides. When the cross connection is allowed to exist at your home, it will affect you and your family first. If you'd like to learn more about helping to protect the quality of our water, call us for further information about ways you can help.

## Information on the Potential for Health Concerns Relating to Drinking Water

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or man made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials. All 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 the 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. 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 elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).



## Annual Drinking Water Quality Report 2014

We want our valued residents to be informed about their water utility. If you have any questions, please contact Centerville City Public Works at 801-292-8232, Monday through Friday except holidays. You may ask for Randy Randall, Public Works Director; Michael Carlson, Water Supervisor & Deputy Public Works Director; or Suzanne DeVoe, Public Works Secretary.

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