

BRECKENRIDGE TOWN OF 2016 Drinking Water Quality Report For Calendar Year 2015

Public Water System ID: CO0159020

Esta es información importante. Si no la pueden leer, necesitan que alguien se la traduzca.

We are pleased to present to you this year's water quality report. Our constant goal is to provide you with a safe and dependable supply of drinking water. Please contact GREGG ALTIMARI at 970-453-3173 with any questions about the Drinking Consumer Confidence Rule (CCR) or for public participation opportunities that may affect the water quality.

General Information

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 (1-800-426-4791) or by visiting <http://water.epa.gov/drink/contaminants>.

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 of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at (1-800-426-4791).

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, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- **Microbial contaminants:** viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic contaminants:** salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **Pesticides and herbicides:** may come from a variety of sources, such as agriculture, urban storm water runoff, and residential uses.
- **Radioactive contaminants:** can be naturally occurring or be the result of oil and gas production and mining activities.
- **Organic chemical contaminants:** including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

In order to ensure that tap water is safe to drink, the Colorado Department of Public Health and Environment prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Lead in Drinking Water

If present, elevated levels of lead can cause serious health problems (especially for pregnant women and young children). It is possible that lead levels at your home may be higher than other homes in the community as a result of materials used in your home's plumbing. If you are concerned about lead in your water, you may wish to have your water tested. 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. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

Source Water Assessment and Protection (SWAP)

The Colorado Department of Public Health and Environment has provided us with a Source Water Assessment Report for our water supply. For general information or to obtain a copy of the report please visit <http://wqcdcompliance.com/ccr>. The report is located under "Source Water Assessment Reports", and then "Assessment Report by County". Select SUMMIT County and find 159020; BRECKENRIDGE TOWN OF or by contacting GREGG ALTIMARI at 970-453-3173. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that could occur. It does not mean that the contamination has or will occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan. Potential sources of contamination in our source water area are listed on the next page.

Please contact us to learn more about what you can do to help protect your drinking water sources, any questions about the Drinking Water Consumer Confidence Report, to learn more about our system, or to attend scheduled public meetings. We want you, our valued customers, to be informed about the services we provide and the quality water we deliver to you every day.

Our Water Sources

<u>Source</u>	<u>Source Type</u>	<u>Water Type</u>	<u>Potential Source(s) of Contamination</u>
NORTH FORK SOUTH BARTON GULCH	Intake	Surface Water	Northwest section of PK 7 neighborhood
GOOSE PASTURE BLUE RIVER	Intake	Surface Water	2 miles south of town
PUMP INTAKE BELOW DAM	Intake	Surface Water	2 miles south of town below spillway of Goose Pasture Tarn Reservoir

Terms and Abbreviations

- **Maximum Contaminant Level (MCL)** – The highest level of a contaminant allowed in drinking water.
- **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 and other regulatory requirements.

- **Maximum Residual Disinfectant Level (MRDL)** – 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.
- **Maximum Contaminant Level Goal (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 Residual Disinfectant Level Goal (MRDLG)** – 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.
- **Violation (No Abbreviation)** – Failure to meet a Colorado Primary Drinking Water Regulation.
- **Formal Enforcement Action (No Abbreviation)** – Escalated action taken by the State (due to the risk to public health, or number or severity of violations) to bring a non-compliant water system back into compliance.
- **Variance and Exemptions (V/E)** – Department permission not to meet a MCL or treatment technique under certain conditions.
- **Gross Alpha (No Abbreviation)** – Gross alpha particle activity compliance value. It includes radium-226, but excludes radon 222, and uranium.
- **Picocuries per liter (pCi/L)** – Measure of the radioactivity in water.
- **Nephelometric Turbidity Unit (NTU)** – Measure of the clarity or cloudiness of water. Turbidity in excess of 5 NTU is just noticeable to the typical person.
- **Compliance Value (No Abbreviation)** – Single or calculated value used to determine if regulatory contaminant level (e.g. MCL) is met. Examples of calculated values are the 90th Percentile, Running Annual Average (RAA) and Locational Running Annual Average (LRAA).
- **Average (x-bar)** – Typical value.
- **Range (R)** – Lowest value to the highest value.
- **Sample Size (n)** – Number or count of values (i.e. number of water samples collected).
- **Parts per million = Milligrams per liter (ppm = mg/L)** – One part per million corresponds to one minute in two years or a single penny in \$10,000.
- **Parts per billion = Micrograms per liter (ppb = ug/L)** – One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- **Not Applicable (N/A)** – Does not apply or not available.



Detected Contaminants

BRECKENRIDGE TOWN OF routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table(s) show all detections found in the period of January 1 to December 31, 2015 unless otherwise noted. The State of Colorado requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. Therefore, some of our data, though representative, may be more than one year old. Violations and Formal Enforcement Actions, if any, are reported in the next section of this report.

Note: Only detected contaminants sampled within the last 5 years appear in this report. If no tables appear in this section then no contaminants were detected in the last round of monitoring.

Lead and Copper Sampled in the Distribution System								
Contaminant Name	Time Period	90 th Percentile	Sample Size	Unit of Measure	90 th Percentile AL	Sample Sites Above AL	90 th Percentile AL Exceedance	Typical Sources
Copper	06/09/2015 to 09/22/2015	0.15	20	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	06/09/2015 to 09/22/2015	3.2	20	ppb	15	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts Sampled in the Distribution System										
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	Highest Compliance Value	MCL Violation	Typical Sources
Total Haloacetic Acids (HAA5)	2015	24.45	8.9 to 44.5	6	ppb	60	N/A		No	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM)	2015	44.17	13.1 to 74.9	8	ppb	80	N/A		No	Byproduct of drinking water disinfection

Total Organic Carbon (Disinfection Byproducts Precursor) Removal Ratio of Raw and Finished Water								
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	TT Minimum Ratio	TT Violation	Typical Sources
Total Organic Carbon Ratio	2015	1.57	1 to 2.86	4	Ratio	1.00	No	Naturally present in the environment

Total Organic Carbon (Disinfection Byproducts Precursor) Removal Ratio of Raw and Finished Water

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	TT Minimum Ratio	TT Violation	Typical Sources
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*If minimum ratio not met and no violation identified then the system achieved compliance using alternative criteria.

Summary of Turbidity Sampled at the Entry Point to the Distribution System

Contaminant Name	Sample Date	Level Found	TT Requirement	TT Violation	Typical Sources
Turbidity	Date/Month: Oct	<u>Highest single</u> measurement: 0.26 NTU	Maximum 1 NTU for any single measurement	No	Soil Runoff
Turbidity	Month: Dec	<u>Lowest monthly</u> percentage of samples meeting TT requirement for our technology: 100 %	In any month, at least 95% of samples must be less than 0.3 NTU	No	Soil Runoff

Inorganic Contaminants Sampled at the Entry Point to the Distribution System

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Barium	2015	0.09	0.09 to 0.09	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	2015	0.61	0.61 to 0.61	1	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	2015	0.16	0.16 to 0.16	1	ppm	10	10	No	Runoff from fertilizer use; leaching from septic

Inorganic Contaminants Sampled at the Entry Point to the Distribution System									
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
									tanks, sewage; erosion of natural deposits

Synthetic Organic Contaminants Sampled at the Entry Point to the Distribution System									
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Hexachlorobenzene	2015	0.01	0.01 to 0.01	1	ppb	1	0	No	Discharge from metal refineries and agricultural chemical factories

Violations, Significant Deficiencies, and Formal Enforcement Actions

Violations					
Name	Category	Time Period	Health Effects	Compliance Value	TT Level or MCL
DBP GROUP	MONITORING, ROUTINE (DBP), MAJOR - MONITORING & REPORTING	07/01/2015 - 09/30/2015	N/A	N/A	N/A
COLIFORM (TCR)	MONITORING (TCR), ROUTINE MINOR - MONITORING & REPORTING	02/01/2015 - 02/28/2015	N/A	N/A	N/A
COLIFORM (TCR)	MONITORING (TCR), ROUTINE MINOR - MONITORING & REPORTING	01/01/2015 - 01/31/2015	N/A	N/A	N/A
CHLORINE	MONITORING, RTN/RPT MAJOR (SWTR-FILTER) - MONITORING & REPORTING	02/01/2015 - 02/28/2015	N/A	N/A	N/A
CHLORINE	MONITORING, RTN/RPT MAJOR (SWTR-FILTER) - MONITORING & REPORTING	01/01/2015 - 01/31/2015	N/A	N/A	N/A
CHLORINE	MONITORING, ROUTINE (DBP), MAJOR - MONITORING & REPORTING	01/01/2015 - 03/31/2015	N/A	N/A	N/A
Additional Violation Information					
<p>Note: If any violation relates to failing to install adequate filtration or disinfection equipment or processes, or have had a failure of such equipment or processes then the water may be inadequately treated. Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. Explanation of the violation(s) and the steps taken to resolve them:</p>					

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for

Town of Breckenridge

Our water system recently violated a drinking water standard. Although this situation does not require that you take immediate action, as our customers, you have a right to know what happened, what you should do, and what we are doing to correct this situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During July 1, 2015 to September 30, 2015 we did not complete all monitoring for TTHM and HAA5 (disinfection by products) and therefore cannot be sure of the quality of our drinking water during that time.

What should I do?

There is nothing you need to do at this time. The table below lists the contaminant(s) we did not properly test for.

Contaminant	Required Sampling Frequency	Number of Samples Taken	When Samples Should Have Been Taken	When Samples Were or Will Be Taken
TTHM	Quarterly	Six	July1, 2015-September 30,2015	November 15, 2015
HAA5	Quarterly	TWO	July1, 2015-September 30,2015	November 15, 2015

What happened? What is being done?

The Town of Breckenridge collected TTHM and HAA5 samples earlier in August. However these samples were rejected due to out of temperature range trip blanks. Samples were recollected on August 18, 2015 for TTHM and HAA5. These samples were sent off to the Accutest laboratory for analysis.

Letter from Accutest: "I regret to inform you of an Accutest Laboratories data reporting issue for EPA Drinking Water Method 552.2; Haloacetic Acids.

Despite our best efforts, the laboratory is unable to report method compliant data for samples in the above-referenced Accutest Job that were collected and submitted to the laboratory in the August 2015 compliance period.” According to the monitoring schedule, these samples must be collected in the month of August. We were unable to resample in August because we found out about the laboratory error in September. We sampled the next quarter in November and our TTHM and HAA5 running annual average is below the states maximum contaminant level.

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We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During January 1, 2015 to February 28, 2015 we did not complete all monitoring for total coliform and chlorine residual and therefore cannot be sure of the quality of our drinking water during that time.

What should I do?

There is nothing you need to do at this time. The table below lists the contaminant(s) we did not properly test for.

Contaminant	Required Sampling Frequency	Number of Samples Taken	When Samples Should Have Been Taken	When Samples Were or Will Be Taken
Total coliform	40 samples for the months of January and February	30 each month	January and February 2015	40 samples were taken during the month of March 2015
Chlorine	40 samples for the months of January and February	30 each month	January and February 2015	40 samples were taken during the month of March 2015

What happened? What is being done?

Sampling requirements changed from 2014 to 2015 which increased the number of samples taken during the months of January, February, and March from 30 to 40. This change was not discovered until the end of February 2015. Therefore, only 30 samples (instead of 40) were collected and tested during the months of January and February 2015. In March 2015 the appropriate number of samples was collected.

The Town of Breckenridge has met all state requirements for these violations and has been in compliance for the past year.

For more information, please contact GREGG ALTIMARI at 970-453-3173 or PO Box 168, Breckenridge, CO 80424.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail. The Town of Breckenridge has met all state requirements for these violations and has been in compliance for the past year.

The Town of Breckenridge will continue to follow the states monitoring schedule and drinking water regulations.

This notice is being sent to you by the Town of Breckenridge

Colorado Public Water System ID#: CO0159020

Date distributed: May 13, 2016
