

Greeley's Award Winning Water

Last June, Greeley's tap water won two major awards.

City of Greeley won the thirteenth annual "Best of the Best" Tap Water Taste Test. The event, comprised of 34 regional winners from water-tasting competitions across North America, was held at American Water Works Association's Annual (AWWA) Conference in 2017.



The People's Choice award winner, as determined by the conference attendees, was also awarded to the City of Greeley. There were almost 1,000 entries for the People's Choice competition with conference attendees sampling and casting a ballot for the best tasting water.

This is the first time in history that a municipality has won both awards in the same year.

In June 2018, Greeley will be defending the title at the next AWWA Conference. Wish us luck!



Get More Information

Please contact Colleen Young at 970-350-9846 with any questions about this report or for public participation opportunities that may affect water quality. To view the report online, visit greeleygov.com/ccr. Access information about drinking water in general on the EPA's drinking water web site at epa.gov/safewater.

Connect to Your Water

Water & Sewer Department

970-350-9813

water@greeleygov.com

greeleygov.com/water

Water Conservation

970-336-4134

conserve@greeleygov.com

greeleygov.com/wc

facebook.com/greeleywater

twitter.com/greeleywater

Water Emergencies

970-350-9813 (daytime)

970-350-9600 (after hours)

Utility Billing

970-350-9720

Water Taste or Odor

970-350-9324

Water Pressure

970-350-9320

Water Restrictions & Violations

970-336-4134

Utility Line Locates

811



CO0162321



— GET TO KNOW YOUR —

Water

2018



Greeley's
Water
Sources

Facts About
Your Water

2017 Water
Quality
Results



Este informe contiene información importante sobre la calidad del agua incluyendo de donde viene, qué hay en ella, y cómo es tratada y distribuida. Si desea esta publicación impresa en español la puede encontrar en greeleygov.com/ccr o llamando al 970-336-4288.



Beware of Cross Connections

As part of our continuing effort to provide and maintain safe, clean drinking water, the Greeley Water Operations Department has a Cross-Connection Control Program. A cross-connection is any connection that could introduce contaminants such as pesticides, fertilizers, used or dirty water, fluids, gases, or other contaminants into the water system.

Water normally flows out of the public water distribution system under pressure. When a cross-connection exists, a drop in pressure can cause a reversal of flow, allowing harmful substances to enter the public water system. Common residential cross-connection contamination include but are not limited to irrigation systems, fertilizer injection systems, hoses connected to chemical spray bottles, chemicals in water beds, hot tubs, swimming pools, water features, aquariums, and swamp coolers. Examples of commercial or industrial cross-connection sources include cooling systems, boilers, solvents and manufacturing chemicals, sprinkler systems, and the same sources listed above under residential contamination sources.

What can you do to protect our public water system?

- Be observant. Check for potential contamination sources around your home, business or industrial site. Never leave hoses in buckets, pools or sinks.
- If you suspect a cross-connection, contact a qualified plumber who is familiar with cross-connections, hydraulics and pollution.
- Install backflow prevention assemblies to prevent potential cross-connections and have a certified backflow tester inspect and test your assemblies annually to ensure they are working properly.

For more information and a list of certified backflow testers please visit <http://bit.ly/GreeleyWaterQuality>.

Greeley Drinking Water Sources

Greeley drinking water comes from surface water located in four river basins: Cache la Poudre River, Laramie River, Big Thompson River, and Colorado River. Greeley uses six high-mountain reservoirs in the Poudre basin (Barnes Meadow, Comanche, Hourglass, Peterson, Milton Seaman, and Twin Lake) to retain water from spring snowmelt for redistribution during the summer and fall when water demand is high but river flows are low.

In addition, the city uses a plains reservoir system (Boyd Lake, Lake Loveland and Horseshoe Lake) to provide storage for summer demands. Greeley owns a portion of the Colorado Big Thompson (C-BT) and Windy Gap Projects. We store our portion from the C-BT Project in Lake Granby, Horsetooth Reservoir and Carter Lake and can deliver water to either the Poudre or Big Thompson basins to meet water demand.

Greeley treats water at the Boyd Lake Water Treatment Plant in Loveland and the Bellvue Water Treatment Plant located north of Fort Collins. Treated water is then piped to Greeley where it is distributed to customers or stored in one of three finished water reservoirs.



Source	Source Type	Water Type	Potential Sources of Contamination
Boyd Lake	Intake	Surface Water	EPA Hazardous Waste Generators, EPA Chemical Inventory / Storage Sites & Toxic Release Inventory Sites, Permitted Wastewater Discharge Sites, Aboveground/Underground & Leaking Storage Tank Sites, Solid Waste Sites, Existing/Abandoned Mine Sites, Other Facilities, Commercial/Industrial Transportation, Residential, Urban Recreational Grasses, Quarries/Strip Mines/Gravel Pits, Row Crops, Fallow, Small Grains, Pasture/Hay, Forest, Septic Systems, Oil/Gas Wells, and Road Miles.
Cache la Poudre River			
Hoosetooth Reservoir			
Lake Loveland			
Purchased from North Weld (CO0162553)	Consecutive Connection		

Protecting Water Sources

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 colorado.gov/cdphe/ccr. The report is located under "Guidance: Source Water Assessment Reports". Search the table using 162321, GREELEY CITY OF, or by contacting Colleen Young at 970-350-9846. 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 back 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 Quality 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.

2018 Drinking Water Quality Results

The City of Greeley routinely monitors for contaminants in your drinking water according to Federal and State laws. The following tables show all detections found in the period of January 1 to December 31, 2017 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. 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.

Summary of Disinfectants Sampled in the Distribution System

Disinfectant Name	Time Period	Results	Sample Size	TT Requirement	Samples Below Level	TT Violation	Typical Sources
Chlorine	December 2017	Lowest period percentage of samples meeting TT requirement: 100%	101	At least 95% of samples per period (month or quarter) must be at least 0.2 ppm	0	No	Water additive used to control microbes

Microorganism Contaminants Sampled in the Distribution System

Contaminant Name	TT Requirement	TT Violation	Typical Sources
Total Coliform	More than 5.0% positive samples per period (If sample size is greater than or equal to 40) OR More than 1 positive sample per period (If sample size is less than 40)	No	Coliforms are bacteria that are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system.

Lead and Copper Sampled in the Distribution System

Contaminant Name	Time Period	90th Percentile	Sample Size	90th Percentile AL	90th Percentile AL Exceedance	Typical Sources
Copper	6/27/2017 to 6/30/2017	0.29 ppm	50	1.3	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	6/27/2017 to 6/30/2017	4.30 ppb	50	15	No	

Disinfection Byproducts Sampled in the Distribution System

Name	Year	Average	Range Low - High	Sample Size	MCL	MCLG	MCL Violation	Typical Sources
Total Haloacetic Acids (HAA5)	2017	24.81 ppb	15.1 to 39.3	32	60	N/A	No	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM)	2017	50.03 ppb	28.1 to 68.8	33	80	N/A	No	
Chlorite	2017	0.15 ppb	0 to 0.29	15	1.0	0.8	No	

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	2017	1.26	1.05 to 1.54	19	Ratio	1.00	No	Naturally present in the environment

*If minimum ratio not met and no violation identified then the system achieved compliance using alternative criteria.

Disinfectants Sampled at the Entry Point to the Distribution System

Contaminant Name	Year	Number of Samples Above or Below Level	Sample Size	TT Requirement	TT Violation	MRDL	Typical Sources
Chlorine/Chloramine	2017	0	3267	TT = No more than 4 hours with a sample below 0.20 ppm	No	0.20 ppm	Water additive used to control



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 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 health care providers. Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria that may come from wastewater treatment plants, septic systems, agricultural livestock, and wildlife.
- *Inorganic contaminants*, such as salts and metals, which can be naturally-occurring or result from stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, which may come from a variety of sources, such as agriculture, stormwater runoff, and residential landscapes.
- *Radioactive contaminants*, that 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, storm water runoff, and septic systems.

Chlorine Dioxide	2017	0	365	N/A	No	800 ppb	to control microbes
------------------	------	---	-----	-----	----	---------	---------------------

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	Apr	Highest single measurement: 0.31 NTU	Maximum 1 NTU for any single measurement	No	Soil runoff
Turbidity	Dec	Lowest monthly 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	

to receive a copy of the U.S. Environmental Protection Agency and the U.S. Centers for Disease Control 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 or visit water.epa.gov/drink/contaminants.

Lead in Drinking Water

If present, elevated levels of lead can cause 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, 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 is available from the Safe Drinking Water Hotline 1-800-426-4791 or at epa.gov/safewater/lead.



Inorganic Contaminants Sampled at the Entry Point to the Distribution System

Contaminant Name	Year	Average	Range Low-High	Sample Size	MCL	MCLG	MCL Violation	Typical Sources
Barium	2017	0.04 ppm	0.02 to 0.06 ppm	2	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	2017	0.56 ppm	0.48 to 0.65 ppm	2	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Selenium	2017	0.80 ppb	0 to 1.60 ppb	2	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines

Secondary Contaminants**

**Secondary standards are non-enforceable guidelines for contaminants that may cause cosmetic effects (such as skin, or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.

Contaminant Name	Year	Average	Range Low - High	Sample Size	Unit of Measure	Secondary Standard
Sodium	2017	19.85	8.6 to 31.1	2	ppm	N/A

Unregulated Contaminants***

Contaminant	Year	Average	Range Low-High	EPA has implemented the Unregulated Contaminant Monitoring Rule (UCMR) to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the Safe Drinking Water Act. EPA uses the results of UCMR monitoring to learn about the occurrence of unregulated contaminants in drinking water and to decide whether or not these contaminants will be regulated in the future. We performed monitoring and reported the analytical results of the monitoring to EPA in accordance with its Third Unregulated Contaminant Monitoring Rule (UCMR3). Once EPA reviews the submitted results, the results are made available in the EPA's National Contaminant Occurrence Database (NCOD) (http://www.epa.gov/dwu/cm/national-contaminant-occurrence-database-ncod) Consumers can review UCMR results by accessing the NCOD. Contaminants that were detected during our UCMR3 sampling and the corresponding analytical results are provided. ***More information about the contaminants that were included in UCMR3 monitoring can be found at: http://www.drinktap.org/water-info/whats-in-my-water/unregulated-contaminant-monitoring-rule.aspx . Learn more about the EPA UCMR at: http://www.epa.gov/dwu/cm/learn-about-unregulated-contaminant-monitoring-rule or contact the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa.gov/drink/contact.cfm .
Strontium	2014	72	68.0 - 76.0 ppb	
Vanadium	2014	0.20	0.20 ppb	
Hexavalent Chromium	2014	0.035	0.03 - 0.04 ppb	
Chlorate	2014	58.50	39.0 - 78.0 ppb	

No violations, significant deficiencies, backflow/cross-connection, and formal actions.



Terms and Abbreviations

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

Maximum Contaminant Level (MCL): The 'Maximum Allowed' 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' 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.

Maximum Residual Disinfectant Level (MRDL) - Highest level of a disinfectant allowed in drinking water, based on convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Nephelometric Turbidity Unit (NTU): Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Parts per million (ppm): One part per million corresponds to 1 milligram per liter (mg/l), a very dilute concentration of substance.

Parts per billion (ppb): One part per billion corresponds to 1 microgram per liter (µg/l), a very dilute concentration of substance.

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

Violation: Failure to meet a Colorado Primary Drinking Water Regulation.