



COLORADO STATE UNIVERSITY

2022 Drinking Water Quality Report, Covering Data For Calendar Year 2021

Public Water System ID Numbers:

Main and West Campus CO0235184

Foothills Campus CO0235182

South Campus CO0235181

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 Susanne Cordery at 970-567-1065 with any questions or for public participation opportunities that may affect the water quality. Please see the water quality data from our wholesale system (City of Fort Collins) attached, for additional information about your drinking water.

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/ground-water-and-drinking-water>.

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 of infections. These people should seek advice from their health care providers about drinking water. 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 stormwater 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 stormwater 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 in the pipe 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 City of Fort Collins completed a Source Water Protection Plan in 2016. It is located here: [PWSID \(fcgov.com\)](https://www.fcgov.com/pwsid)

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. The City of Fort Collins can use this information to evaluate the need to improve

current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your building. In addition, the source water assessment results provide a starting point for developing a source water protection plan.

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, or to learn more about our system. 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>Sources (Water Type - Source Type)</u>	<u>Potential Source(s) of Contamination</u>
Purchased treated water from City of Fort Collins, a surface water consecutive connection.	Please see: The City of Fort Collins' Source Water Protection Plan (SWPP)

Note: Colorado State University owns a "Consecutive System", which is a distribution system delivering treated water purchased from the City of Fort Collins. The City of Fort Collins delivers treated water to CSU's master meters. CSU then distributes the treated water through CSU-owned pipelines to approximately 37,000 people.

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.
- **Health-Based** – A violation of either a MCL or TT.
- **Non-Health-Based** – A violation that is not a MCL or TT.
- **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.

- **Level 1 Assessment** – A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- **Level 2 Assessment** – A very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Detected Contaminants

CSU 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, 2021 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 five years appear in this report. If no tables appear in this section, then no contaminants were detected in the last round of monitoring.

Disinfectants Sampled in the Distribution System TT Requirement: At least 95% of samples per period (month or quarter) must be at least 0.2 ppm <u>OR</u> If sample size is less than 40 no more than 1 sample is below 0.2 ppm Typical Sources: Water additive used to control microbes							
Campus name	Contaminant Name	Time Period	Results	Number of Samples Below Level	Sample Size	TT Violation	MRDL
Main and West	Chlorine	January through December, 2021	<u>Lowest period</u> percentage of samples meeting TT requirement: 100%	0	30 per month	No	4.0 ppm
Foothills	Chlorine	January through December, 2021	<u>Lowest period</u> percentage of samples meeting TT requirement: 100%	0	5 per month	No	4.0 ppm
South	Chlorine	January through December, 2021	<u>Lowest period</u> percentage of samples meeting TT requirement: 100%	0	6 per month	No	4.0 ppm

Lead and Copper Sampled in the Distribution System									
Campus	Contaminant Name	Time Period	90 th Percentile	Sample Size	Unit of Measure	90 th Percentile Action Level (AL)	Sample Sites Above AL	90 th Percentile AL exceedance	Typical Source
Main and West	Lead	9/1/21 to 9/30/21	2	30	ppb	15	1	No	Corrosion of building plumbing systems; erosion of natural deposits.
Main and West	Copper	9/1/21 to 9/30/21	0.490	30	ppm	1.3	0	No	
Foothills	Lead	9/1/21 to 9/30/21	7	20	ppb	15	2	No	
Foothills	Copper	9/1/21 to 9/30/21	0.639	20	ppm	1.3	0	No	
South	Lead	9/1/21 to 9/30/21	<1	20	ppb	15	0	No	
South	Copper	9/1/21 to 9/30/21	0.713	20	ppm	1.3	0	No	

Disinfection Byproducts Sampled in the Distribution System										
Campus	Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Main & West	Total Haloacetic Acids (HAA5)	2021	14.3	4.1 to 20.5	16	ppb	60	N/A	No	Byproduct of drinking water disinfection
Main & West	Total Trihalo-methanes (TTHM)	2021	31.2	15.4 to 45.7	16	ppb	80	N/A	No	Byproduct of drinking water disinfection
Foothills	Total Haloacetic Acids (HAA5)	2021	7.2	<1.0 to 21.8	8	ppb	60	N/A	No	Byproduct of drinking water disinfection
Foothills	Total Trihalo-methanes (TTHM)	2021	12.0	<1.0 to 30.8	8	ppb	80	N/A	No	Byproduct of drinking water disinfection
South	Total Haloacetic Acids (HAA5)	2021	17.7	14.3 to 22.7	8	ppb	60	N/A	No	Byproduct of drinking water disinfection
South	Total Trihalo-methanes (TTHM)	2021	30.8	16.7 to 40.1	8	ppb	80	N/A	No	Byproduct of drinking water disinfection

Unregulated Contaminants, Year: 2021					
<p>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 were not required to perform monitoring in accordance with its Unregulated Contaminant Monitoring Rule (UCMR) in 2021. Once EPA reviews the submitted results, the results are made available in the EPA’s National Contaminant Occurrence Database (NCOD) (https://www.epa.gov/sdwa/national-contaminant-occurrence-database-ncod). Consumers can review UCMR results by accessing the NCOD. Contaminants that were detected during our UCMR sampling and the corresponding analytical results are provided below.</p>					
Contaminant	Average	Range	Number of Samples	Unit of Measure	Sample Site
No UCMR samples collected in 2021					

Violations, Significant Deficiencies, and Formal Enforcement Actions

The following provides information regarding a violation:

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

CSU Main/West CO0235184, CSU South Campus CO0235181, CSU Foothills Campus CO0235182

Monitoring Requirements Not Met

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

Our water system recently violated a drinking water requirement. Although this situation is not an emergency, 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 our drinking water meets health standards. We are required to collect samples for disinfection byproducts in February, May, August and November of each year. Samples for disinfection byproducts were not collected in February 2022. Disinfection byproducts are formed when chlorine interacts with natural organics in water. Some disinfection byproducts are possible carcinogens.

What does this mean? What should I do?

- There is nothing you need to do at this time. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

What is being done?

- The samples for disinfection byproducts were collect on March 2, 2022. Results indicate all disinfection byproducts analyzed are below the applicable maximum contaminant levels.

For more information, please contact Susanne Cordery at Susanne.cordery@colostate.edu or 9705671065, or 6030 Campus Delivery, Fort Collins, CO 80523.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly. You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by: CSU Facilities Management - CO0235184, CO0235182, CO0235181

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