

2022 Annual Drinking Water Quality Report

Covering Data For Calendar Year 2021

5150 Snead Dr., Fort Collins, CO 80525 - www.FCLWD.com - Phone: (970) 226-3104 - https://www.facebook.com/FCLWD/

Dear Customers of the Fort Collins-Loveland Water District,

We're pleased to send you the District's water quality report for 2021. In this report, we share with you information about your drinking water quality and interesting facts about the District. Our constant goal is to provide you with a safe and dependable supply of drinking water.

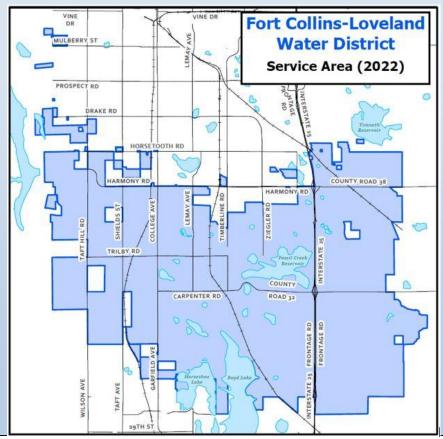
The District continues to grow at a moderate rate and sales of new taps reached 555 in 2021.

We continue to look forward to serving you and invite you to attend the monthly meetings of your Board of Directors. The meetings are held at the District office at 5150 Snead Drive on the third Tuesday of every month starting at 7:00PM.

As a reminder, our office hours are Monday-Friday, 8:00 to 4:30 with after hours on call. You can also contact us at 970-226-3104. If you have any questions regarding this report, please call the District Manager at 970-226-3104 extension 101.

YOUR DRINKING WATER MEETS ALL STATE AND FEDERAL STANDARDS

The Fort Collins–Loveland Water District (FCLWD) is committed to providing our customers with a safe and dependable supply of drinking water. Throughout 2021, we met all state and federal health standards.



WHERE DOES YOUR WATER COME FROM?

The water delivered to you by the FCLWD comes from the Soldier Canyon Water Treatment Authority (SCWTA) and the City of Fort Collins, which pull from the Poudre River and Horsetooth Reservoir. The SCWTA water treatment plant is owned and operated by the Fort Collins-Loveland Water District, the East Larimer County Water District and the North Weld County Water District. FCLWD sometimes purchases water from the City of Loveland and North Weld County Water District during summer demand and sells water to the Town of Windsor, the City of Loveland, the Little Thompson Water District, and Spring Canyon Water District.

Sources (Water Type – Source Type)_

PURCHASED WATER CO0135485 (Surface Water-Consecutive Connection)

City of Loveland

PURCHASED WATER CO0162553 (Surface Water-Consecutive Connection)

North Weld County Water District

PURCHASED WATER CO0135718 (Surface Water-Consecutive Connection)

Soldier Canyon Filter Plant

PURCHASED WATER CO0135291 (Surface Water-Consecutive Connection)

City of Fort Collins



SOURCE WATER ASSESSMENT AND PROTECTION (SWAP) SOLDIER CANYON WATER TREATMENT AUTHORITY C00135718

The Colorado Department of Public Health and Environment (CDPHE) has provided us with a Source Water Assessment Report for our water supply. You may obtain a copy of the report by visiting www.colorado.gov/cdphe/ccr. The Report is located under Guidance "Source Water Assessment Reports". Search the table using 135718 Soldier Canyon Filter Plant, or by contacting Ken Garrett at 970-482-3143. 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 insure 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 may come from: EPA hazardous waste generators, Commercial/Industrial/ Transportation, low intensity residential, urban recreational grasses, row crops, fallow, pasture/hay, mixed forest, & oil/gas wells, Solid waste sites, deciduous forest, evergreen forest, septic systems, road miles, EPA chemical inventory/storage sites, EPA toxic release inventory sites, permitted wastewater discharge sites, & other facilities, aboveground, underground, and leaking storage tank sites, & existing/abandoned mine sites.

SOURCE WATER ASSESSMENT AND PROTECTION (SWAP) CITY OF FORT COLLINS CO0135291

The City of Fort Collins completed a Source Water Protection Plan (SWPP) in 2016. The SWPP found that the highest potential threats of pollution to the Cache la Poudre River and Horsetooth Reservoir are past and future wildfires, and historical mining. A follow-up report on mining in these watersheds determined that the risk of contamination from historical mining is low. To obtain a copy of either report, contact Mark Kempton at 970-221-6692.

The Colorado Department of Public Health and Environment may have 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 www.colorado.gov/cdphe/ccr. The report is located under "Guidance: Source Water Assessment Reports". Search the table using 135291, FT COLLINS CITY OF, or by contacting MARK KEMPTON at 970-221-6692. 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 are EPA Hazardous Waste Generators, EPA Chemical Inventory/Storage Sites, EPA Toxic Release Inventory Sites, Permitted Wastewater Discharge Sites, Aboveground, Underground and Leaking Storage Tank Sites, Solid Waste Sites, Existing/Abandoned Mine Sites, Concentrated Animal Feeding Operations, Other Facilities, Commercial/Industrial/Transportation, Low Intensity Residential, Urban Recreational Grasses, Row Crops, Fallow, Pasture/Hay, Deciduous Forest, Evergreen Forest, Mixed Forest, Septic Systems, Oil/Gas Wells, and Road Miles.

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.

SOURCE WATER ASSESSMENT AND PROTECTION (SWAP) CITY OF LOVELAND C00135485

The Colorado Department of Public Health and Environment may have 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 wqcdcompliance.com/ccr. The report is located under "Guidance: Source Water Assessment Reports". Search the table using 135485, LOVELAND CITY OF, or by contacting JEFF MONSON at 970-667-4416. 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 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.

Detected Contaminants

The Fort Collins-Loveland Water District, the City of Fort Collins, and the Soldier Canyon Filter Plant routinely monitor 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, 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 last section of this report.

<u>Note</u>: 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.

Definitions of Terms Used In

Report

Fort Collins - Loveland Water District - FCLWD ID#C00135292 City of Fort Collins - FC ID# C00135291 Soldier Canyon Filter Plant/TD, SCFP - ID#C00135718

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 highest level of a contaminant allowed in drinking water.

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 (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 Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant, below which there is no known or unexpected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Nephelometric Turbidity Unit (NTU): A measure of the clarity or cloudiness of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Parts per billion (ppb) or Micrograms per liter (µg/1): One part per billion corresponds to one minute in 2,000 years or one penny in \$10,000.000.

Parts per million (ppm) or Milligrams per liter (mg/l): One part per million corresponds to one minute in two years or one penny in \$10,000.

PicoCuries per Liter (pCi/l): A measure of radioactivity in water.

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

Average (x-bar) The typical value.

Range: The lowest value to the highest value.

Gross Alpha, Including RA, Excluding RN & U: Gross alpha particle activity compliance value. It includes radium-226, but excludes radion 222 and uranium.

Violation(No Abbreviation) A failure to meet a Colorado Primary Drinking Water Regulation.

Formal Enforcement Action(No Abbreviation) An escalated action taken by the State

(due to the number and/or severity of violations) to bring a non-compliant water system back into compliance by a certain time, with an enforceable consequence if the schedule is not met.

Health-Based: A violation of either a MCL or TT.

Non-Health-Based: A violation that is not a MCL or TT.

 $\label{lem:variance} \textbf{Variance and Exemptions (V/E):} \ \ \text{Department permission not to meet a MCL or treatment technique under certain conditions.}$

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).

Sample Size (n): Number or count of values (i.e. number of water samples collected).

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.

General Information

Esta informacion es importante, si no puede leerla, pidale a alguien que la traduzca, por favor

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, such as 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 of farming
- Pesticides and herbicides that 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 by products of industrial processes and petroleum production, and may come from gas stations, urban stormwater 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 that limit 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."

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. 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 for 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 or visit http://water.epa.gov/drink/contaminants.

*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 at 1-800-426-4791 or visit http://www.epa.gov/safewater/lead

	Lead and Copper Sampled in the Distribution System									
Contami	nant Name	Monitoring Period	90th Percentile	Number of Samples	Unit of Measure	Action Level	Sample Sites Above Action Level	90th Percentile Action Level Exceedance	Typical Sources	
Copper	FCLWD	8/30/2021- 11/11/2021	0.23	60	ppm	1.3	0	No	Corrosion of household plumbing	
Lead*	FCLWD	8/30/2021- 11/11/2021	5	60	ppb	15	1	No	systems Erosion of natural deposits	

	Disinfection Byproducts (TTHMs, HAA5, and Chlorite) Sampled in the Distribution System									
Contaminant :	Name	Year	Average of Individual Samples	Range of Individual Samples (Lowest - Highest)	Number of Samples	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Chlorite	FCLWD	2021	0.36	0.17-0.44	6	ppb	1.0	0.8	No	
Total Haloacetic Acids (HAA5)	FCLWD	2021	18.41	12.2-25.9	24	ppb	60	N/A	No	By-Product of drinking water disinfection
Total Trihalomethames (TTHM)	FCLWD	2021	25.7	14.4-38.2	24	ppb	80	N/A	No	

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 or 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.								
Disinfectant Name Time		Time Period	Results	Number of Samples Below Level	Sample Size	TT/MRDL Violation	MRDL	
Chlorine	FCLWD	December, 2021	Lowest Period Percentage samples meeting TT Requirement: 100%	0	60	No	4.0 ppm	

		Turbid	lity Sampled at the Entry Point to th	e Distribution System			
Contaminant	t Name	Sample Date	Level Found	TT Requirement	TT Violation	Typical Sources	
		May 29	Highest single measurement: 0.075 NTU	Maximum 1 NTU for any single measurement	No		
	SCFP	Month: Met all 12 months	Lowest monthly percentage of samples meeting TT requirementfor our technology: 100%	TT of samples must be less			
Turbidity		February Highest single measurement 0.09 NTU		Maximum 1 NTU for any single measurement	No	Soil Runoff	
Turbidity	FC	Month: Dec.	Lowest monthly percentage of samples meeting TT requirementfor our technology: 100%	In any month, at least 95% of samples must be less than 0.3 NTU	No	Kulloff	
	LVLD	Date/Month: Jul	Highest Single measurement: 1.111 NTU	Maximum 1 NTU for any single measurement	No		
	LVLD		Lowest monthly percentage of samples meeting TT requirement for our technology: 99 %	In any month, at least 95% of samples must be less than 0.3 NTU	No		

			Inorgan	ic Contam	inants Samj	pled at the E	ntry Po	int to the	Distribution	System	
Contam Nan		Year	Average	Range Low- High	Number of Samples	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources	
	SCFP	2021	0.02	0.02 to 0.02	4	ppm	2	2	No	Discharge or drilling waste;	
Barium	FC	2021	0.02	0.02 to 0.02	1	ppm	2	2	No	Discharge from metal refineries; Erosion of natural deposits.	
	LVLD	2021	0.01	0.01 to 0.01	1	ppm	2	2	No		
Fluoride	SCFP	2021	0.53	0.12 to 0.69	4	ppm	4	4	No	Erosion of natural deposits; Water additive that promotes strong teeth;	
	FC	2021	0.61	0.61 to 0.61	1	ppm	4	4	No	Discharge from fertilizer and aluminum factories.	
	LVLD	2021	0.72	0.72 to 0.72	1	ppm	4	4	No		
Nitrate	SCFP	2021	0.04	0.01 to 0.10	4	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewer; erosion of natural deposits.	
	LVLD	2021	0.30	0.30 to 0.30	1	ppm	10	10	No		
Antimony	SCFP	2021	0.24	0.0 to 0.94	4	ppb	6	6	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder	
Mercury	SCFP	2021	0.10	0.00 to 0.40	4	ppb	2	2	No	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland	
Selenium	SCFP	2021	0.19	0.00 to 0.76	4	ppb	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines	

Tota	Total Organic Carbon (Disinfection By-Products Precursor) Percentage Removal Ratio of Raw & Finished Water									
Contami Nam		Year	Average of Individual Ratio samples	Range of Individual Ratio Samples (Lowest- Highest)	Number of Ratio Samples	Unit of Measure	TT Minimum Ratio	TT Violation	Typical Sources	
Total Organic	SCFP	2021	1.19	0.76-1.61	12	Ratio	1	No	Naturally present in the	
Carbon	FC	2021	1.27	1.1-1.39	12	Ratio	1	No	environment	
	LVLD	2021	1.42	1.16-1.71	12	Ratio	1	No		

Secondary Contaminants**

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

Contamin	ant Name	Vear Average		Range of Results	Sample Size	Unit of measure
	SCFP	2021	9.43	8.2-11.1	4	ppm
Sodium	FC	2021	3.58	3.58-3.58	1	ppm
	LVLD	2021	15.3	15.3-15.3	1	ppm

	Radionuclides Samples at the Entry Point to the Distribution System									
Contam Nan		Year	Average	Range Low- High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Combined Radium	LVLD	2020	1.4	1.4 to 1.4	1	pCi/L	5	0	No	Erosion of natural deposits

Unregulated Contaminants Sampled Within the Distribution System

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 Unregulated Contaminant Monitoring Rule (UCMR). Once EPA reviews the submitted results, the results are made available in the EPA's National Contaminant Occurrence Database (NCOD) (http://www.epa.gov/dwucmr/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.

Contaminan	ts Sampled	Within the D	istribution System		
Contaminant Name	Year	Average	Range Low- High	Sample Size	Units of Measure
BROMOCHLOROACETIC ACID	2019- 2020	1.07	0.401-1.61	16	ug/L
BROMODICHLOROACETIC ACID	2019- 2020	1.11	0.745-1.58	16	ug/L
DICHLOROACETIC ACID	2019- 2020	9.95	4.20-13.9	16	ug/L
TRICHLOROACETIC ACID	2019- 2020	13.11	8.12-17.4	16	ug/L
MANGANESE	2019- 2020	0.50	<0.400-1.03	8	ug/L

Violetions	Significant Defici	anciae Rackflow/C	Cross-Connection, a	and Formal Enfa	reamont Actions
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No Violations or Formal Enforcement Actions