

CONSOLIDATED MUTUAL **DENVER SYSTEM** 2024 Drinking Water Quality Report

Covering Data For Calendar Year 2023

Public Water System ID: CO0130020

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 CHRISTOPHER JONES at 303-274-7410; 303-238-0451 with any questions or for public participation opportunities that may affect 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 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 about drinking water from their healthcare 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 land's surface 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 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 various sources, such as agriculture, urban stormwater runoff, and residential uses.
- Radioactive contaminants:** can be naturally occurring or result from 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 may also come from gas stations, urban stormwater runoff, and septic systems.

To ensure that tap water is safe to drink, the Colorado Department of Public Health and Environment prescribes regulations limiting the amount of specific 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

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. We are responsible for providing high-quality drinking water and removing lead pipes, but we cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, showering, doing laundry, or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact CHRISTOPHER JONES at 303-274-7410; 303-238-0451. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at epa.gov/safewater/lead.

Source Water Assessment and Protection (SWAP)

The Colorado Department of Public Health and Environment has provided 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 by county (Denver), or by contacting CHRISTOPHER JONES at 303-274-7410; 303-238-0451. 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 water treatment capabilities and prepare for future contamination threats. This can help us ensure 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 get in touch with us to learn more about what you can do to help protect your drinking water sources, if you have 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 daily.

Our Water Sources

<u>Sources (Water Type - Source Type)</u>	<u>Potential Source(s) of Contamination</u>
TREATED WATER PURCHASED FROM DENVER WATER CO0116001 (Surface Water-Consecutive Connection)	EPA Abandoned Contaminated Sites, 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, Other Facilities, Commercial/Industrial/Transportation, High Intensity Residential, Low Intensity Residential, Urban Recreational Grasses, Quarries / Strip Mines / Gravel Pits, Row Crops, Fallow, Pasture / Hay, Deciduous Forest, Evergreen Forest, Mixed Forest, Septic Systems, Oil / Gas Wells, Road Miles

Terms and Abbreviations

- **Maximum Contaminant Level (MCL)** – The highest contaminant level 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 an MCL or TT.
- **Non-Health-Based** – A violation that is not an 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 disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for the 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 an 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 above 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

Consolidated Mutual Water Company and Denver Water routinely monitor contaminants in your drinking water in accordance with Federal and State laws. The following table(s) show all detections found in the period of January 1 to December 31, 2023, unless otherwise noted. The State of Colorado requires us to monitor for specific 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, though representative, some of our data 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, no contaminants were detected in the last monitoring round.

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 <i>OR</i> If the 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 Period	Results	Number of Samples Below Level	Sample Size	TT Violation	MRDL
Chloramine	2023	<u>Lowest period</u> percentage of samples meeting TT requirement: 100%	0	60	No	4.0 ppm

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	01/01/2023 to 06/30/2023	0.050	370	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
	07/01/2023 to 12/31/2023	0.060	438	ppm	1.3	0	No	
Lead	01/01/2023 to 06/30/2023	3.5	370	ppb	15	3	No	Corrosion of household plumbing systems; Erosion of natural deposits
	07/01/2023 to 12/31/2023	3.9	438	ppb	15	7	No	

Disinfection Byproducts Sampled in the Distribution System									
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Total Haloacetic Acids (HAA5)	2023	15.23	1.4 to 22.8	32	ppb	60	N/A	No	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM)	2023	26.73	16.6 to 43.8	32	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	2023	1.22	1.03 to 1.43	39	Ratio	1.00	No	Naturally present in the environment	

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: Jul	<u>Highest single</u> measurement: 0.203 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

Radionuclides 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
Gross Alpha	2023	2.37	0.5 to 5.6	6	pCi/L	15	0	No	Erosion of natural deposits
Combined Radium	2021	0.92	0 to 2.1	6	pCi/L	5	0	No	Erosion of natural deposits
Combined Uranium	2023	0.22	0 to 0.8	19	ppb	30	0	No	Erosion of natural deposits

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	2023	0.03	0.02 to 0.05	19	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	2023	0.6	0.26 to 0.74	34	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	2023	0.06	0 to 0.19	34	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Secondary Contaminants**						
**Secondary standards are <u>non-enforceable</u> 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	2023	19.56	9.8 to 27	19	ppm	N/A

Unregulated Contaminants***

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) (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.

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2023	0	0 - 0	11	ug/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2023	0	0 - 0	11	ug/L
Perfluorotridecanoic acid (PFTrDA)	2023	0	0 - 0	11	ug/L
Perfluorotetradecanoic acid (PFTA)	2023	0	0 - 0	11	ug/L
Perfluoroheptanesulfonic acid (PFHpS)	2023	0	0 - 0	11	ug/L
Perfluoropentanesulfonic acid (PFPeS)	2023	0	0 - 0	11	ug/L
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	2023	0	0 - 0	11	ug/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2023	0	0 - 0	11	ug/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	2023	0	0 - 0	11	ug/L
Perfluoropentanoic acid (PFPeA)	2023	0	0 - 0	11	ug/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	2023	0	0 - 0	11	ug/L
1H,1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	2023	0	0 - 0	11	ug/L
1H,1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)	2023	0	0 - 0	11	ug/L
1H,1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)	2023	0	0 - 0	11	ug/L
Perfluorobutanoic acid (PFBA)	2023	0	0 - 0	11	ug/L
Hexafluoropropylene oxide dimer acid (HFPO DA)	2023	0	0 - 0	11	ug/L
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	2023	0	0 - 0	11	ug/L
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2023	0	0 - 0	11	ug/L
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2023	0	0 - 0	11	ug/L
Perfluoroundecanoic acid (PFUnA)	2023	0	0 - 0	11	ug/L
Perfluorohexanoic Acid (PFHxA)	2023	0	0 - 0	11	ug/L
Perfluorododecanoic Acid (PFDoA)	2023	0	0 - 0	11	ug/L

Unregulated Contaminants***

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) (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.

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure
Perfluorodecanoic Acid (PFDA)	2023	0	0 - 0	11	ug/L
Perfluorooctanoic Acid (PFOA)	2023	0	0 - 0	11	ug/L
Perfluorooctanesulfonic acid (PFOS)	2023	0	0 - 0	11	ug/L
Perfluorononanoic Acid (PFNA)	2023	0	0 - 0	11	ug/L
Perfluorohexanesulfonic acid (PFHxS)	2023	0	0 - 0	11	ug/L
Perfluoroheptanoic acid (PFHpA)	2023	0	0 - 0	11	ug/L
Perfluorobutanesulfonic acid (PFBS)	2023	0	0 - 0	11	ug/L
Lithium	2023	4.45	0 - 10.8	11	ug/L

***More information about the contaminants that were included in UCMR monitoring can be found at: drinktap.org/Water-Info/Whats-in-My-Water/Unregulated-Contaminant-Monitoring-Rule-UCMR. Learn more about the EPA UCMR at: epa.gov/dwucmr/learn-about-unregulated-contaminant-monitoring-rule or contact the Safe Drinking Water Hotline at (800) 426-4791 or epa.gov/ground-water-and-drinking-water.

Violations, Significant Deficiencies, and Formal Enforcement Actions

No Violations or Formal Enforcement Actions

Significant Deficiencies

A situation, practice, or condition that may potentially result in drinking water quality that poses an unacceptable risk to public health and welfare and/or may potentially introduce contamination into the drinking water.

Date Identified	Deficiency Description	Deficiency Explanation and Steps Taken or Will Take to Correct	Estimated Completion Date
9/26/2022	T901 - CROSS CONNECTION; Uncontrolled cross connection that may allow contamination to enter drinking water.;	Denver Water is working with the state health department to install more cross-connection devices at Foothills treatment plant. There is no evidence that the water you drink was affected by these deficiencies.	May 2025
9/26/2022	T901 - CROSS CONNECTION; Uncontrolled cross connection that may allow contamination to enter drinking water.;	State inspectors found that the hatches on the 56th Avenue Tank were installed incorrectly. Denver Water is repairing the hatches according to the corrective action plan. There is no evidence that the water you drink was affected by these deficiencies.	December 2024