Covering Data for Calendar Year 2020

Public Water System ID: CO0118020

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 KELLY CONOVER at 303-649-9857 with any questions or for public participation opportunities that may affect water quality. Please see the water quality data from our wholesale system(s) (either attached or included in this report) 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 epa.gov/ground-water-anddrinking-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 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 roduction 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

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 epa.gov/safewater/lead.

Source Water Assessment and Protection (SWAP)

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 118020, COTTONWOOD WSD, or by contacting KELLY CONOVER at 303-649-9857. 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 gas stations, urban storm water runoff, and septic systems. In order to ensure that tap water is 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>	Potential Source(s) of Contamination
D4A WELL (Groundwater-Well) CC4 MOVED TO JWPP CO0103418 (Groundwater-Well) D11 WELL (Groundwater-Well) PURCHASED FROM JWPP CO0103418 (Groundwater-Consecutive Connection) PURCHASED FROM WISE CO0103843 (Surface Water- Consecutive Connection) DD1 MOVED TO JWPP CO0103418 (Groundwater-Well) D1 WELL (Groundwater-Well) D3 WELL (Groundwater-Well) D2 WELL (Groundwater-Well) D2 WELL (Groundwater-Well)	EPA Hazardous Waste Generators, EPA Chemical Inventory/Storage Sites, Aboveground, Underground and Leaking Storage Tank 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, Small Grains, Pasture / Hay, Deciduous Forest, Evergreen Forest, Mixed Forest, Septic Systems, Road Miles

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 noncompliant 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.

COTTONWOOD WSD, PWS ID: CO0118020

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Detected Contaminants

COTTONWOOD WSD 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, 2020 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.

	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 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												
Chlorine	Chlorine December, 2020 Lowest period percentage of samples meeting TT requirement: 100% 0 10 No 4.0 ppm											

				Le	ad and Coppo	er Sampled i	in the Distribution	on 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	07/31/2020 to 10/12/2020	0.22	67	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	02/12/2020 to 04/15/2020	1.3	74	ррb	15	2	No	Corrosion of household plumbing systems; Erosion of natural deposits
Copper	02/12/2020 to 04/15/2020	0.22	74	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	07/31/2020 to 10/12/2020	3.6	67	ррb	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	MCL Violation	Typical Sources						
Total Haloacetic Acids (HAA5)	2020	5.53	3.2 to 8.1	4	ррb	60	N/A	No	Byproduct of drinking water disinfection						
Total Trihalome thanes (TTHM)	2020	27.8	13.7 to 45.5	4	ppb	80	N/A	No	Byproduct of drinking water disinfection						

	Radionuclides Sampled at the Entry Point to the Distribution System												
Contaminant Name													
Gross Alpha	2016	4.7	4.7 to 4.7	1	pCi/L	15	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	2019	0.11	0.09 to 0.13	2	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits					
Fluoride	2019	1.1	1.1 to 1.1	2	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories					
Nitrate	2020	0.03	0 to 0.21	7	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits					

Violations, Significant Deficiencies, and Formal Enforcement Actions

No Violations or Formal Enforcement Actions

JOINT WATER PURIFICATION PLANT 2021 Drinking Water Quality Report

Covering Data for Calendar Year 2020

Public Water System ID: CO0103418

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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 STEVE WITTER at 303-790-4830 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 <u>epa.gov/ground-water-and-drinking-water</u>.

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 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:

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•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.

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Our Water Sources

Potential Source(s) of Contamination
The potential contamination from dispersed contaminant sources includes the following: Commercial, Industrial/Transportation, Above/Below Storage Tanks, High Intensity Residential, Urban Recreational Grasses, Row Crops, Pasture/Hay, Evergreen Forest, Painting, Hazard Waste Generators, Septic Systems and Road Miles.

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JOINT WATER PURIFICATION PLANT, PWS ID: CO0103418

2021 CCR Page 1 of 2

Detected Contaminants

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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.

	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	2020	10.96	10.96 to 10.96	1	pCi/L	15	0	No	Erosion of natural deposits					
Combined Radium	2020	1.7	1.7 to 1.7	1	pCi/L	5	0	No	Erosion of natural deposits					
Combined Uranium	2020	12	12 to 12	1	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			
Arsenic	2020	2	2 to 2	1	ppb	10	0	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes			
Barium	2020	0.14	0.14 to 0.14	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits			
Chromium	2020	2	2 to 2	1	ррb	100	100	No	Discharge from steel and pulp mills; erosion of natural deposits			
Fluoride	2020	0.2	0.2 to 0.2	1	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories			
Nitrate	2020	0.6	0.6 to 0.6	1	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Selenium	2020	4	4 to 4	1	ррb	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines			

Secondary standards are <u>r</u>	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	Contaminant Name Year Average Range Sample Size Unit of Measure Secondary Standard											
	Low – High											
Sodium	Sodium 2020 36.5 36.5 to 36.5 1 ppm N/A											
Total Dissolved Solids	2018	818	778 to 840	4	ppm	500						

No Violations or Formal Enforcement Actions