

COLORADO CITY MD 2018 Drinking Water Quality Report for Calendar Year 2017

Public Water System ID: CO0151200

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 DAVID VALDEZ at 719-676-3396 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 <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 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 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 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 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 www.colorado.gov/cdphe/ccr. The report is located under "Guidance: Source Water Assessment Reports". Search the table using 151200, COLORADO CITY MD, or by contacting DAVID VALDEZ at 719-676-3396. 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.

Our Water Sources

<u>Source</u>	<u>Source Type</u>	<u>Water Type</u>	<u>Potential Source(s) of Contamination</u>
COLD SPRING	Well	Groundwater Under the Direct Influence of Surface Water	SEPTIC SYSTEMS AND RUNOFF FROM AGRICULTURAL AND FORESTED AREAS AND ROADS
GREENHORN CREEK LAKE BECKWITH	Intake	Surface Water	SEPTIC SYSTEMS AND RUNOFF FROM AGRICULTURAL AND FORESTED AREAS AND ROADS

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.



Detected Contaminants

COLORADO CITY MD 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, 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. 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 <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						
Disinfectant Name	Time Period	Results	Number of Samples Below Level	Sample Size	TT Violation	MRDL
Chlorine	December, 2017	<u>Lowest period</u> percentage of samples meeting TT requirement: 100%	0	4	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	06/13/2017 to 09/26/2017	0.32	10	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	06/13/2017 to 09/26/2017	3.1	10	ppb	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	Highest Compliance Value	MCL Violation	Typical Sources
Total Haloacetic Acids (HAA5)	2017	67.39	16.8 to 97.1	7	ppb	60	N/A	66	Yes	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM)	2017	103.17	59 to 133	7	ppb	80	N/A	99	Yes	Byproduct of drinking water disinfection

Disinfection Byproducts Sampled in the Distribution System										
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	Highest Compliance Value	MCL Violation	Typical Sources
Chlorite	2017	0.12	0 to 0.43	30	ppb	1.0	.8	N/A	No	Byproduct of drinking water disinfection

Disinfectants Sampled at the Entry Point to the Distribution System						
Name	Year	Number of Samples Above or Below Level	Sample Size	TT/MRDL Requirement	TT/MRDL Violation	Typical Sources
Chlorine	2017	0	2069	TT = No more than 4 hours with a sample below 0.2 MG/L	Yes	Water additive used to control microbes
Chlorine Dioxide	2017	0	354	MRDL = 800 ppb	Yes	Water additive used 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	Date/Month: Feb	<u>Highest single</u> measurement: 0.09 NTU	Maximum 0.5 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 0.1 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	2014	2.86	2.5 to 3.22	2	pCi/L	15	0	No	Erosion of natural deposits
Combined Radium	2014	0.35	0.3 to 0.4	2	pCi/L	5	0	No	Erosion of natural deposits
Combined Uranium	2014	3.05	2.8 to 3.3	2	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
Antimony	2017	0.11	0 to 0.21	2	ppb	6	6	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	2017	0.34	0 to 0.68	2	ppb	10	0	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	2017	0.08	0.05 to 0.11	2	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	2017	0.09	0 to 0.17	2	ppb	100	100	No	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	2017	0.27	0.26 to 0.27	2	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	2017	0.26	0 to 0.52	2	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	2017	1.64	0.77 to 2.5	2	ppb	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines

Synthetic Organic 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
Dalapon	2017	0.47	0 to 1.4	3	ppb	200	200	No	Runoff from herbicide used on rights of way

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	18.25	11 to 25.5	2	ppm	N/A



Violations, Significant Deficiencies, Backflow/Cross-Connection, and Formal Enforcement Actions

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

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

Violations

Name	Category	Time Period	Health Effects	Compliance Value	TT Level or MCL
TOTAL TRIHALOMETHANES (TTHM)	FAILURE TO MEET REQUIRED LEVELS - HEALTH-BASED	10/01/2017 - 12/31/2017 And 07/01/2017 – 09/30/2017	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.	99 UG/L	80 UG/L

Violations					
Name	Category	Time Period	Health Effects	Compliance Value	TT Level or MCL
Explanation: THE PROBLEM THAT CAUSED THIS HAS BEEN CORRECTED AND THE VALUE IS NOW BELOW THE MCL					
TOTAL HALOACETIC ACIDS (HAA5)	FAILURE TO MEET REQUIRED LEVELS - HEALTH-BASED	10/01/2017 - 12/31/2017	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.	66 UG/L	60 UG/L
Explanation: THE PROBLEM THAT CAUSED THIS HAS BEEN CORRECTED AND THE VALUE IS NOW BELOW THE MCL					
DALAPON	FAILURE TO MONITOR AND/OR REPORT - NON-HEALTH-BASED	07/01/2017 - 09/30/2017	N/A	N/A	N/A
Explanation: SAMPLE WAS NOT TAKEN IN THE THIRD QUARTER, A SAMPLE WAS COLLECTED IN THE FOURTH QUARTER					
CHLORITE	FAILURE TO MONITOR AND/OR REPORT - NON-HEALTH-BASED	07/01/2017 - 09/30/2017	N/A	N/A	N/A
Explanation: CHLORITE WAS MONITORED AND REPORTED TO THE STATE / THE REPORT WAS NOT RECEIVED BY THE STATE BY 10/10/2017 CAUSING THIS VIOLATION					
CHLORINE DIOXIDE	FAILURE TO MONITOR AND/OR REPORT - NON-HEALTH-BASED	07/01/2017 - 09/30/2017	N/A	N/A	N/A
Explanation: CHLORINE DOXIDE WAS MONITORED AND REPORTED TO THE STATE / THE REPORT WAS NOT RECEIVED BY THE BT 10/10 2017 CAUSING THIS VIOLATION					
Formal Enforcement Action					
The Colorado Department of Public Health and Environment issued an enforcement order to Colorado City MD for failing to meet the TTHM and HAA5 maximum contamination levels. The enforcement order number is DW.03.18.151200 and was issued on 03/08/2018. The enforcement order contains specific activities and deadline to return to compliance.					

