COLORADO CITY MD 2019 Drinking Water Quality Report For Calendar Year 2018

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 JAMES ECCHER at 719-569-5816 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 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 151200, COLORADO CITY MD, or by contacting JAMES ECCHER at 719-569-5816. 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

Sources (Water Type - Source Type)	Potential Source(s) of Contamination
COLD SPRING (Groundwater UDI Surface Water-Well) GREENHORN CREEK LAKE BECKWITH (Surface Water-Intake)	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 non-compliant water system back into compliance.
- 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, 2018 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: no more than 1 sample is below 0.2 ppm **Sources**: Water additive used to control microbes

Disinfectant Name	Time Period	Results	Number of Samples Below Level	Sample Size	TT Violation	MRDL
Chlorine	2018	Lowest period percentage of samples meeting TT requirement: 100%	0	2	No	4.0 ppm

Disinfectants Sampled at the Entry Point to the Distribution System

Disinfectant Name	Year	Number of Samples Above or Below Level	Sample Size	TT/MRDL Requirement	TT/MRDL Violation	Sources
Chlorine	2018	0	1962	TT = No more than 4 hours with a sample below 0.2 MG/L	No	Water additive used to control microbes
Chlorine Dioxide	2018	0	361	MRDL = 800 ppb	No	Water additive used to control microbes

Summary of Turbidity Sampled at the Entry Point to the Distribution System

Contaminant	Sample	Level Found	TT Requirement	TT	Typical
Name	Date			Violation	Sources
Turbidity	Date/Month: Jul	Highest single measurement; 0.08 NTU	Maximum 0.5 NTU for any single measurement	No	Soil Runoff
Turbidity	2018	Lowest monthly 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

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)	2018	24.18	15.7 to 30.1	6	ppb	60	N/A	Yes	Byproduct of drinking water disinfection
Total Trihalome thanes (TTHM)	2018	33.5	15.5 to 41.5	6	ppb	80	N/A	Yes	Byproduct of drinking water disinfection
Chlorite	2018	0.45	0 to 1.06	12	ppb	1.0	.8	No	Byproduct of drinking water disinfection

			Lead a	nd Coppe	r Sample	d in	the Distr	ibution S	System			
Contaminant Name	Tir Per		90 th Percentile	Sample Size	Unit o Measu	_	90 th Percentil AL	San Sit Abo	tes ove	90 Perce A Excee	ntile L	Typical Sources
Copper	06/22/ to 06/28/		0.26	41	ppm		1.3	()	N	o	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	06/22/ to 06/28/	/2018	1.8	41 Sampled	ppb at the Ent	try P	15 Point to th	ne Distrik		N System		Corrosion of household plumbing systems; Erosion of natural deposits
Contaminant Name	Year	Averag		nge - High	Sample Size		Unit of Ieasure	MCL	MC		MCL iolation	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 t	o 0.4	2		pCi/L	5	0		No	Erosion of natural deposits
Combined Uranium	2014	3.05	2.8 t	o 3.3	2		ppb	30	0		No	Erosion of natural deposits

	I	norganic C	ontaminants Sar	npled at th	e Entry Poi	nt to the	Distributio	on System	
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Antimony	2018	0.08	0.05 to 0.13	3	ppb	6	6	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	2018	0.18	0 to 0.32	3	ppb	10	0	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	2018	0.08	0.05 to 0.1	3	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

]	norganic C	Contaminants Sai	mpled at th	ie Entry Poi	nt to the	Distribution	on System	
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Fluoride	2018	0.24	0.15 to 0.31	3	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury	2018	0.02	0 to 0.04	3	ppb	2	2	No	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Nitrate	2018	0.38	0.02 to 0.59	3	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	2018	1.22	0.85 to 1.6	3	ppb	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium	2018	0.02	0 to 0.05	3	ppb	2	0.5	No	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

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	2018	22.77	10.6 to 29.1	3	ppm	N/A

Violations

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.

		Violatio	ns		
Name	Category	Time Period	Health Effects	Compliance Value	TT Leve
TURBIDITY &	INADEQUATE	10/25/2016 -	N/A	N/A	N/A
CHLORINE	EQUIPMENT	10/24/2018			
MONITORING	VERIFICATION				
NON-HEALTH-BASED					
At the time of our October	2016 inspection, we were	not maintaining ve	 rification/calibration logs or operat	ing our monitori	าย
			PART OF 2017 CCR EQUIPMEN		
TOTAL	FAILURE TO MEET	01/01/2018 -	Some people who drink water	94 UG/L	80 UG/L
TRIHALOMETHANES	REQUIRED	03/31/2018	containing trihalomethanes in	7.00/2	00 00/1
(TTHM)	LEVELS		excess of the MCL over many		
			years may experience		
HEALTH-BASED			problems with their liver,		
			kidneys, or central nervous		
			systems, and may have an		
			increased risk of getting		
			cancer.		
Our sample results have all	been below the maximum	n level after Novem	HM was above the maximum level ber 2017 (FLUSHING WATER L SULTS TO A LEVEL BELOW TF	INES HAS LOW	
TOTAL HALOACETIC ACIDS (HAA5)	FAILURE TO MEET REQUIRED	01/01/2018 -	Some people who drink water	63 UG/L	60 UG/L
ACIDS (HAAS)	LEVELS	03/31/2018	containing haloacetic acids in		
HEALTH-BASED	LEVELS		excess of the MCL over many		
TIBLETTI BITGE			years may have an increased risk of getting cancer.		
Oue to high sample results	in November 2017, the an	nual average of HA	A5 was above the maximum level	into the beginning	g of 2018.
			ber 2017. (FLUSHING WATER I		
ESIDENT TIME AND TO	OC REMOVAL HAS LO	WERED TEST RE	SULTS TO A LEVEL BELOW T	HE MAXIUM)	
STORAGE TANK	FAILURE TO	10/25/2016 -	N/A	N/A	N/A
INSPECTIONS	HAVE A STORAGE	10/17/2018			
	TANK				
			1		
NON-HEALTH-BASED	INSPECTION PLAN				

RESULT N	AMPLE IOTICES	FAILURE TO INFORM	01/01/2018 - 01/10/2018	N/A	N/A	N/A
NON-HEALT	TH-BASED	HOMEOWNER OF LEAD RESULTS				
We are require	ed to cond the	laharatami ragulta ta tha	homas vikana via same	ple for lead, no later than 30 days		
from the labor	atory. We fai	led to deliver these notice	nomes where we samp	failed to report to the state that the	after receiving	the results
		TATE BY CERTIFIED M		ranea to report to the state that th	us was complete	d. NOTICE
MONITORI	NG PLAN	FAILURE TO	10/25/2016 -	N/A	N/A	N/A
NON-HEALT	H-BASED	HAVE A MONITORING PLAN	Open			
		LAN				
At the time of	the October 2	2016 inspection, we did n	ot have an adequate w	ritten monitoring plan. MONITC	ORING PLAN W	AS ON
FILE WITH S						
CROSS CONT		FAILURE TO HAVE A	10/25/2016 - Open	N/A	N/A	N/A
NON-HEALT	H-BASED	BACKFLOW PREVENTION	,			
		PLAN				
At the time of	the October 2	2016 inspection, we did no	ot have a written plan	to prevent backflows and potenti	al cross connect	ions.
Uncontrolled of PROGRAM IS	ross connecti S IN PLACE	ions have the potential to AND DEVICES ARE CH	cause severe health ris HECKED ANNUNAL	sks to consumers in the water dis LY BY CERTIFIED INSPECT	tribution system OR	. A BFCCC
CHLORINE I		FAILURE TO	JULY 2018,	N/A	N/A	N/A
& CHLO	RITE	REPORT	AUGUST 2018 AND			
NON-HEALT	H-BASED					
			SEPTEMBER			
We did the req	uired samplir	ng, but we failed to send i	2018	to the state. WORKING WITH S	TATE WE CO	RRECTED
We did the req THE QUARTE	uired samplir ERLY REPO	RTING ERRORS	2018 n the quarterly report	to the state. WORKING WITH S	TATE WE COF	RRECTED
THE QUARTE	uired samplir ERLY REPO	RTING ERRORS	2018		TATE WE COP	RRECTED
THE QUARTE	ERLY REPO	RTING ERRORS F Description	2018 In the quarterly report			RRECTED
THE QUARTE	The Co	RTING ERRORS F Description Plorado Department of Pu	2018 In the quarterly report Formal Enforcement blic Health and	t Actions	ntaminants	
THE QUARTE	The Co	Description Description Diorado Department of Puent issued Colorado City in issued Water Enforcement	2018 In the quarterly report Formal Enforcement blic Health and MD an enforcement nt Order Number	t Actions Associated Co	ntaminants IC ACIDS (HA.	A5)
THE QUARTE	The Co Environme order (Drin DW.03.18.	Description Description Diorado Department of Puent issued Colorado City N	2018 In the quarterly report Cormal Enforcement blic Health and MD an enforcement nt Order Number red Colorado City to	Associated Co TOTAL HALOACET	ntaminants IC ACIDS (HA.	A5)
THE QUARTE	The Continue order (Dring DW.03.18.)	Description Description Diorado Department of Puent issued Colorado City Inking Water Enforceme 151200). The order require	2018 In the quarterly report Formal Enforcement blic Health and MD an enforcement nt Order Number red Colorado City to byproduct levels. FOC REMOVAL	Associated Co TOTAL HALOACET	ntaminants IC ACIDS (HA.	A5)

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