# City of Cortez 2023 Drinking Water Quality Report Covering Data for Calendar Year 2022

Public Water System ID: CO0142200

#### 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 Water Superintendent Randy Hunt at 970.837.7218 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 <a href="mailto:epa.gov/ground-water-and-drinking-water">epa.gov/ground-water-and-drinking-water</a>.

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 naturallyoccurring 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**

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 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, taking a shower, 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 Water Superintendent Randy Hunt at 970.837.7218. 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 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 <a href="wqcdcompliance.com/ccr">wqcdcompliance.com/ccr</a>. The report is located under "Guidance: Source Water Assessment Reports". Search the table using our system name or ID, or by contacting Randy Hunt at 970.837.7218.

The Source Water Assessment Report provides a screening-level evaluation of potential contamination that <u>could</u> occur. It <u>does not</u> mean that the contamination <u>has or will</u> 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
MCPHEE RESERVOIR (Surface Water-Intake)	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, Row Crops, Pasture / Hay, Deciduous Forest, Evergreen Forest, Mixed Forest, Septic Systems, Oil / Gas Wells, 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.
- 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 90<sup>th</sup> 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**

The City of Cortez 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, 2022, 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.

			D:	C4-	Commission	1 : 4l 1	D: -4	.:1 4.:	a C4a			
TT Requiren			of samples p	er period	(month o	r quarter	) mus	st be a	on System at least 0.2 ppm additive used to			than 40 no
Disinfectant Name	Tin	ne Period		Results				Number of Samples Samples Below Level Siz			TT Violation	MRDL
Chlorine	Dece	mber 202	,	Lowest period percentage of samples meeting TT requirement: 100%			es	0		10	No	4.0 ppm
			Lead	and Copp	er Samp	led in th	e Dis	stribu	tion System		l	
Contaminant Name		ime riod	90 <sup>th</sup> Percentile	Sample Size	Unit Meas		90' Perce AI	ntile	Sample Sites Above AL	90 <sup>th</sup> Percentile AL Exceedance	Typical Sources	
Copper		7/2021 to 6/2021	0.13	21	ppi	n	1.3	3	0	No	household systems;	sion of d plumbing Erosion of deposits
Lead		7/2021 to 6/2021	3.4	21	pp	b	15	5	1	No	Corrosion of household plumbing systems; Erosion of natural deposits	
			Disinfect	ion Bypro	ducts Sa	mpled i	n the	Distr	ribution Syster	<u>n</u>		
Name	Year	Avera ge	Range Low – Hig	Samp h Size		it of asure	MC	L	MCLG	MCL Violation	Typical	Sources
Total Haloacetic Acids (HAA5)	2022	32.39	20.5 to 49.	2 8	p	pb	60		N/A	No		of drinking sinfection
Total Trihalometh anes (TTHM)	2022	59.24	38.5 to 71.			pb	80		N/A	No	water dis	of drinking sinfection
<u>1</u>	Total Or	ganic Caı	bon (Disinfo	ection By	oroducts	Precurs	or) R	Remov	val Ratio of Ra	w and Finish	ed Water	
Contamina nt Name	Year	Avera	ge Rai Low -	_	Sample Size	Unit Meas		Т	TT Minimum Ratio	TT Violation		al Sources
Total Organic Carbon Ratio	2022	1.81			12	Rat		1 05	1.00	No	envi	n the ironment
"II minimum r	atio not	met and no	o violation id	entified th	en the sys	stem ach	nevec	ı com	pliance using a	nernative crite	епа.	

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: May	Highest single measurement: 0.47 NTU	Maximum 1 NTU for any single measurement	No	Soil Runoff					
Turbidity	Month: May	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	Soil Runoff					

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Barium	2022	0.09	0.09 to 0.09	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

## $\underline{Synthetic\ Organic\ Contaminants\ Sampled\ at\ the\ Entry\ Point\ to\ the\ Distribution\ System}$

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Dalapon	2022	0.83	0 to 1.5	3	ppb	200	200	No	Runoff from herbicide used on rights of way

## Secondary Contaminants\*\*

<sup>\*\*</sup>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	2022	13.3	13.3 to 13.3	1	ppm	N/A

## **Violations, Significant Deficiencies, and Formal Enforcement Actions**

# No Violations or Formal Enforcement Actions



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