

## Important Health Information

You may be more vulnerable than the general public to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immuno-compromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; those who are undergoing steroid treatments; and people with HIV/AIDS or other immune system disorders can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water website at <http://www.epa.gov/safewater>.

### Where do we get our drinking water?

Our drinking water is obtained from surface and ground water sources. Some of our water is purchased from the City of Amarillo. Both the City of Amarillo's and the City of Canyon's water supplies were furnished from ground and surface water sources. Some of the City of Amarillo's water supply was stored in a reservoir and treated through their surface water treatment plant. The groundwater sources for our drinking water are the Ogallala and Dockum aquifers. The City of Amarillo publishes its own Water Quality Report. It can be viewed on their website at <http://amarillo.gov> or questions concerning their water quality may be addressed by contacting the Director of Utilities, P.O. Box 1971, Amarillo, TX 79105-1971, or (806) 378-6028.

For more information please contact:

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City of Canyon

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### Why are there contaminants in my drinking water?

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits of contaminants in bottled water which must provide the same protection for public health. 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 water poses a health risk. More information about contaminants and potential health effects can be obtained at the EPA's Safe Drinking Water website <http://www.epa.gov/safewater>.

Contaminants may be found in drinking water that could cause taste, odor or color problems. These types of contaminants are not necessarily causes for health concerns. For more information about taste, odor, or color of drinking water, please contact us at (806) 655-5011 or for more information on drinking water contaminants and potential health effects, you can visit the EPA Safe Drinking Water website at <http://www.epa.gov/safewater>.

Fertilizers, pesticides, other agricultural chemicals and runoff from feedlots are potential sources of contamination. Other potential sources of contamination in our area result from oil field activities, septic systems and abandoned water wells. To help protect our ground water sources, the City has an ongoing wellhead protection program, which adheres to TCEQ standards and guidelines to protect against any pollution entering the aquifers. The TCEQ has furnished all public water systems with a Source Water Susceptibility Assessment (SWSA). Results of the City's assessment can be viewed on the State Drinking Water Watch website at <http://dww2.tceq.texas.gov/DWW/>

This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/l) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by Canyon Municipal Water System has an average fluoride concentration of 2.72 mg/l.

Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/L of fluoride (the U.S. Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4mg/l of fluoride, but we're required to notify you when we discover that the fluoride levels in your drinking water exceed 2 mg/l because of the above mentioned potential cosmetic dental problem.

For more information, please call the Canyon Municipal Water System at 806-655-5011. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-800-NSF-HELP (800-673-4357).

## Water Conservation, Drought Contingency and Water Audits

The City of Canyon is continuously striving to increase our water use efficiency and closely monitor our own water usage. The matter of water conservation is something that we can all be better aware of. Education and public awareness is key when it comes to reaching our conservation goals. There are many resources out there to assist you in learning more about water conservation. Please visit our website, [www.canyontx.com](http://www.canyontx.com), for some helpful tips. Also, you can view our state required water conservation and drought contingency plans on the website as well. These can be seen in our Code of Ordinances, Chapters 52 and 53.

Over the last few years, the Texas Legislature has focused more on water resource planning than in the past. Some legislation has been passed requiring public water systems to better monitor and report their water production and usage. Water audits are now being performed annually by the City and water systems of our size and larger. In the water loss audit submitted to the Texas Water Development Board for the time period of January through December 2020 our system estimated that 89,420,309 gallons of water was lost. This volume relates to approximately 8.44% of the total water produced and purchased. If you have any questions concerning the water audit, contact the Public Works Department at (806) 655-5011.

### Source water assessment and its availability

The sources of drinking water (both tap water and bottled 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, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as 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, which may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and can also come from gas stations, urban storm water runoff and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

TCEQ completed an assessment of your source water and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on its susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, contact Canyon Municipal Water System at (806) 655-5011.

ANNUAL

# WATER QUALITY REPORT

Reporting Year 2020

### Is my water safe?

Once again the City of Canyon is presenting our annual water quality report covering all drinking water testing performed during the 2020 calendar year. In 2020, your tap water met all Federal (USEPA) and State (Texas Commission on Environmental Quality, TCEQ) drinking water standards. Over the years, we have dedicated ourselves to producing drinking water that meets all state and federal standards. We continually strive to adopt new methods for delivering the best quality drinking water to you. As new challenges to drinking water safety emerge, we remain vigilant in meeting the goals of source water protection, water conservation and community education while continuing to serve the needs of all our water users. Please share with us your thoughts or concerns about the information in this report. After all, well-informed customers are our best allies.



Presented by Canyon Municipal Water System

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (806) 655-5011.

### Lead in home plumbing

If present, elevated levels of 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. The City of Canyon is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. 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. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>. The City monitors the water for lead levels every three (3) years. Sixty (60) samples are taken throughout the city. The last sampling in 2020 indicated that none of the samples taken exhibited lead amounts above the EPA mandated action level.

### Community Participation

You can voice your opinions concerning our water system at meetings of the Canyon City Commission. For more information on City Commission meetings, contact the City Manager's office at (806) 655-5000, or our website, [www.canyontx.com](http://www.canyontx.com).



## DISINFECTION BY-PRODUCTS

Substance	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acid (HAA5)*	2020	14	0-14.7	No goal for the total	60	ppb	N	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)*	2020	47	2.53-37.2	No goal for the total	80	ppb	N	By-product of drinking water disinfection

\*The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year.  
 \*The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year.

## INORGANIC CONTAMINANTS

Substance	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2020	1.7	1.7-1.7	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium	2020	.11	0.11-0.11	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chromium	2020	1.2	1.2-1.2	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits
Flouride	2020	2.8	1.99-2.8	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2020	3	1.01-2.52	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2020	ND	ND	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

## RADIOACTIVE CONTAMINANTS

Substance	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2020	5.8	5.2-5.8	0	50	pCi/L*	N	Decay of natural and man-made deposits
Combined Radium 226/228	2020	1.53	0-1.53	0	5	pCi/L*	N	Erosion of natural deposits
Gross alpha excluding radon and uranium	2020	8	1.0-8.0	0	15	pCi/L	N	Erosion of natural deposits
Uranium	2020	12.8	8.8-12.8	0	30	ug/l	N	Erosion of natural deposits

\*EPA considers 50pCi/L to be the level of concern for beta particles

## UNREGULATED CONTAMINANTS

Substance	Collection Date	Average Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chloroform	2020	2.47	ND-5.24	MNR	MNR	ppb	N	By-Product of drinking water disinfection
Bromoform	2020	5.19	ND-11.2	MNR	MNR	ppb	N	By-Product of drinking water disinfection
Bromodichloromethane	2020	4.83	ND-9.09	MNR	MNR	ppb	N	By-Product of drinking water disinfection
Dibromochloromethane	2020	7.55	ND-14	MNR	MNR	ppb	N	By-Product of drinking water disinfection

Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking

## OTHER SUBSTANCES

Substance	Collection Date	Average Detected	Range Low-High	Typical Source
Calcium (ppm)	2020	27.23	9.6-43.7	Abundantly naturally occurring element
Chloride (ppm)	2020	60.17	19.9-282	Abundantly naturally occurring element; used in water purification: By-Product of oil field activity
Total Hardness as CaCo3 (ppm)	2020	158.59	57-274	Naturally occurring Calcium and Magnesium
Iron (ppm)	2020	ND	ND	Erosion of naturally soluble mineral salts
Total Alkalinity (mg/l)	2020	256.58	176-282	Naturally occurring soluble mineral salts
Total Dissolved Solids (ppm)	2020	455.03	392-835	Total dissolved mineral constituents in water

## DISINFECTANT RESIDUAL

Substance	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Units of Measure	Violation (Y/N)	Source in Drinking Water
Free Chlorine	2020	1.15	0.72-1.69	4	4	ppm	N	Water additive used to control microbes

## LEAD AND COPPER

Substance	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2020	1.3	1.3	0.13	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	2020	0	15	1.5	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits

## VIOLATIONS

(Consumer Confidence Rule)\*

Violation Type	Violation Began	Violation End	Violation Explanation
CCR Adequacy/Availability/Content	7/1/2017	1/12/2018	We failed to provide to you, our drinking water customers, an annual report that adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water

\* The Consumer Confidence Rule requires community water systems to prepare and provide to their Customers annual consumer confidence reports on the quality of the water delivered by the systems

## COLIFORM BACTERIA (2020)

MCLG	Total Coliform MCL	Highest No. of Positive	Fecal Coliform or E. Coli MCL	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	2 positive monthly sample	0	0	0	N	Naturally present in the environment. 0 detect by City of Canyon; 9 detects by City of Amarillo

## ORGANIC SUBSTANCES

Constituent	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Turbidity: Highest Single Measurement	0.32 NTU	1 NTU	N	Soil runoff; tested by City of Amarillo
Turbidity: Lowest Monthly % Meeting Limit	100%	0.3 NTU	N	Soil runoff; tested by City of Amarillo

\*100% of the turbidity samples were below the TT value of 0.3. A value less than 95% constitutes a TT violation. Turbidity is the measure of the cloudiness in the water. It is monitored to determine the effectiveness of a filtration system. These organic substances are not monitored by the City of Canyon, but reported by the City of Amarillo as required for surface water treatment.

## Water Quality Data Table

During the past year, the City has taken hundreds of water samples in order to determine the presence of any biological, inorganic, volatile organic or synthetic organic contaminants. The table below lists only those contaminants that were detected in the water during their most recent sampling. Removing all contaminants from our water would be extremely expensive, and in most cases, would not provide increased protection of public health. In fact, some contaminants are beneficial in small amounts. The EPA and/or the State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. The "year sampled" column indicates the year of the most recent testing. In this table, you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions.

## Definitions

The following tables contain scientific terms and measures, some of which may require explanation.

**Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**Action Level Goal (ALG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

**Avg:** Regulatory compliance with some MCLs is based on running annual average of monthly samples.

**Level 1 Assessment:** A Level 1 assessment is 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 Level 2 assessment is 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.

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**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 (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 residual disinfectant level goal (MRDLG):** The level of 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.

**MFL:** million fibers per liter (a measure of asbestos)

**MNR:** monitored not regulated

**mrem:** millirems per year (a measure of radiation absorbed by the body)

**N/A:** Not Applicable

**ND:** Not Detected

**NTU:** Nephelometric Turbidity Units (a measure of turbidity) Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of a filtration system.

**pCi/L:** picocuries per liter (a measure of radioactivity)

**ppb:** micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water.

**ppm:** milligrams per liter or parts per million – or one ounce in 7,350 gallons of water.

**ppq:** parts per quadrillion, or pictograms per liter (pg/L)

**ppt:** parts per trillion, or nanograms per liter (ng/L)

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.



## For More Information Contact:

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