

City of Palo Pinto 2023 Annual Drinking Water Report

(Also known as the Consumer Confidence Report)

Water System Identification Number – TX1820004

Annual Water Quality Report for the period of January 1 to December 31, 2023

City of Palo Pinto purchases treated
surface water from the City of Mineral Wells which treats surface water from
Lake Palo Pinto

For more information regarding this report contact: Tammy Daugherty, Office Manager, at (940)659-2700

*Este reporte incluye informacion sobre el agua para tomar. Para asistencia en espanol, favor de llamar at
telephono (940) 659-2700.*

PUBLIC PARTICIPATION OPPORTUNITIES -CITY COUNCIL MEETINGS

Date: Second Tuesday of every month. **Time:** 7:00 pm

Location: Palo Pinto WSC Office – 238 Oak Street, Palo Pinto, Texas

Sources of Drinking Water

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.

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 by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

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.

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 for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office. You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; 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 Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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>.

Information about Source Water Assessments

TCEQ completed an assessment of your source water, and results indicated that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on the source water assessments and protection efforts at our system, please contact Christopher McGuire, City Administrator, at (325) 893-4234.

Water Quality Test Results Explanation of Acronyms Used in this Report: The following tables contain scientific terms and measures, some of which may require explanation.

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

Maximum Contaminant Level or 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 or 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 or 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 or 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.

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.

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

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

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

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

na: not applicable

NTU: nephelometric turbidity units (a measure of turbidity)

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.

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

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

Disinfectant (Chloramine Total) Levels Testing Results in the City of Palo Pinto System

Disinfectant	Year of Range	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measurement	Violation	Source of Chemical
Chloramine Total	2023	2.98	1.2	4.4	4.0	4.0	ppm	N	Disinfectant used to control microbes.

Microbiological (Coliforms) Testing Results in the City of Palo Pinto

Type of Contaminant	Sample Year	Total Coliform Maximum Contaminant Level	Total Number of Positive Total Coliform Samples During the Year	E. coli Maximum Contaminant Level	Total Number of Positive E. coli Samples	Violation	Likely Source of Contaminant
Coliform bacteria	2023	0	0	0	0	N	Naturally present in environment

2023 Water Loss Audit Information

Time Period Covered by Audit	Estimated Gallons of Water Lost During 2023	Comments and/or Explanations
January to December 2023	2,020,506	Most of the water lost during 2023 was the result of flushing to maintain water quality or leaks in the distribution system.

Regulated Contaminants Detected

Lead and Copper

Definitions:

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 th Percentile	#Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/08/2022	1.3	1.3	0.074	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Regulated Contaminants in the City of Clyde Distribution System

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2023	22	17.6-24.2	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	53	30.3 – 71.4	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Nitrate [measured as Nitrogen]	2023	0.0479	0.0479-0.0479	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

CITY OF Palo Pinto purchases water from CITY OF Mineral Wells. CITY OF Mineral Wells provides purchase surface water from LAKE PALO PINTO located in PALO PINTO county.

Regulated Contaminants in the Source Water – City of Mineral Wells

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
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Chlorite	2023	1.14	0-1.14	0.8	1	ppm	Y	By-product of drinking water disinfection.
Haloacetic Acids (HAA5)	2023	22	9.9 – 28.2	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	59	30.3 – 82.2	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

<u>Inorganic Contaminants</u>	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2023	0.1	0.1 - 0.1	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Arsenic	2023	1	1.2-1.2	0	10	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	2023	0.2	0.189-0.189	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]	2023	0.0388	0.0388-.00388	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2023	8.9	8.9-8.9	0	50	pCi/L*	N	Decay of natural and man-made deposits.

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

Turbidity

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.4 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set.

Violations – City of Mineral Wells

Chlorite			
<p>Some infants and young children who drink water containing chlorite in excess of the MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. Some people may experience anemia.</p>			
Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, AVERAGE (CHLORITE)	8/01/2023	8/01/2023	Water samples showed that the amount of this contaminant in our drinking water was above it's standard for the period indicated. Because of the contaminant and the sample locations, this posed an acute health risk.

Violations- City of Mineral Wells

Lead and Copper Rule

<p>The lead and copper rule protects public health minimizing lead and copper levels in drinking water primarily by reducing corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.</p>			
Violation Type	Violation Begin	Violation End	Violation Explanation
WATER QUALITY PARAMETER M/R (LCR)	01/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and Period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated
WATER QUALITY PARAMETER M/R (LCR)	0701/2023	12/31/2023	We failed to test our drinking water for the contaminant and Period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

The Water Quality Parameters required under the lead and copper rule were all sampled and tested. The incorrect paperwork was turned in with the samples, therefore the TCEQ considered the sampling incomplete. All parameters were well within the required limits.