

2003 Annual Drinking Water Quality Report

LAMAR CITY OF
PWSID CO0150700

Esta es informacion importante. Si no la pueden leer, necesitan que alguien se la traduzca.

We are pleased to present to you this year's Annual Quality Water Report. Our constant goal is to provide you with a safe and dependable supply of drinking water.

Please contact Dan Mcmillan at 719-336-2002 if you have any questions about this report, if you would like to learn more about the utility or any scheduled public meetings. We want our valued customers to be informed about your water utility, the services we provide and the quality water we deliver to you every day.

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. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer underling 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 Safety 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**, such as viruses and bacteria that 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **Pesticides and herbicides** that may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.
- **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 stormwater runoff, and septic systems.
- **Radioactive contaminants**, that can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that the 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 regulation establish limits for contaminants in bottled water that must provide the same protection for public health.

Nitrate in drinking water at levels above 10ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels above 5ppm, you should ask advice from your health care provider.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested. Flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline at 1-800-426-4791.

LAMAR CITY OF routinely monitors for constituents in your drinking water according to Federal and State laws. The following tables show the results of our monitoring for the period of January 1st to December 31st, 2003 unless otherwise noted. The State of Colorado required 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. Some of our data, though representative, may be more than one year old. To help you understand the terms and abbreviations used in this report, we have provided the following definitions:

- *Parts per million(ppm) or Milligrams per liter(mg/l)* –one part per million corresponds to one minute in two years of a single penny in \$10,000.
- *Parts per billion(ppb) or Micrograms per liter* – one part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.
- *Parts per trillion(ppt) or Nanograms per liter(nanograms/l)* – one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.
- *Parts per quadrillion (ppq) or Picograms per liter (picograms/l)* – one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.
- *Picocuries per liter(pCi/L)* – Pico curies per liter is a measure of the radioactivity in water.
- *Nephelometric Turbidity Unit(NTU)* – nephelometric turbidity unit is a measure of the clarity of the water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- *Action Level(AL)* – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- *Treatment Technique(TT)* – A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
- *Maximum Contaminant Level Goal(MCLG)* – The “Goal” is 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 contaminant Level(MCL)* – The “Maximum Allowed” is 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 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.
- *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.

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The system's sources of water are listed below. The State is conducting source water assessments for all public water systems. To find out the status of the source water assessment for our system or to learn more about what you can do to help protect our drinking water sources, please call the contact listed at the beginning of this report.

Well No 1	Well	Groundwater
Well No 2	Well	Groundwater
Well No 3	Well	Groundwater
Well No 4	Well	Groundwater
Well No 5	Well	Groundwater
Well No 6	Well	Groundwater
Well No 7	Well	Groundwater
Well No 8	Well	Groundwater
Well No 9	Well	Groundwater
Well No 10	Well	Groundwater
Well No 11	Well	Groundwater
Well No 12	Well	Groundwater
Well No 13	Well	Groundwater
Well No 14	Well	Groundwater
Well No 15	Well	Groundwater
Well No 16	Well	Groundwater
Well No 17	Well	Groundwater
Well No 18	Well	Groundwater
Well No 19	Well	Groundwater
Well No 20	Well	Groundwater
Well No 21	Well	Groundwater
Well No 22	Well	Groundwater
Well No 23	Well	Groundwater
Well No 24	Well	Groundwater
Well No 25	Well	Groundwater
Well No 26	Well	Groundwater
Well No 27	Well	Groundwater

Table of Contaminants

The state 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. Some of our data (e.g., for organic contaminants), though representative, is more than one year old.

Chemical Contaminants							
Contaminant	Date	Violation	Level	Unit	MCLG / MRDLG	MCL/ MRDL	Likely Source
Barium	8/23/2000	N	0.012	ppm	2	2	Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Chromium	1/20/1999	N	11.000	ppb	100	100	Discharge from steel and pulp mills; Erosion of natural deposits
	8/23/2000	N	12.000	ppb	100	100	
	2/20/2002	N	7.000	ppb	100	100	
Fluoride	1/20/1999	N	0.900	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
	8/23/2000	N	0.620	ppm	4	4	
	2/20/2002	N	0.920	ppm	4	4	
Gross Alpha emitters	1/16/2001	N	1.000	pCi/l		15	Erosion of natural deposits
Gross Beta	1/16/2001	N	8.600	pCi/l	0	50	Decay of natural and man-made deposits
Particle Nickel	8/23/2000	N	0.003	ppm		0.1	
Selenium	1/20/1999	N	5.000	ppb	50	50	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
	8/23/2000	N	6.000	ppb	50	50	
	2/20/2002	N	6.500	ppb	50	50	
Sulfate	1/20/1999	N	519.000	ppm			
	8/23/2000	N	849.000	ppm			
	2/20/2002	N	743.000	ppm			
Thallium	1/20/1999	N	0.360	ppb	0.5	2	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories
Nitrate	3/25/2003	N	1.700	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Total Nitrate and Nitrite	3/25/2003	N	1.700	ppm	10	10	

Lead and Copper 90th Percentiles

Contaminant	Date Range	Level	Unit	MCLG	AL	Count
Copper	1/1/2002-12/31/2004	0.500	ppm	1.3	1.3	20
	1/1/1999-12/31/1999	0.230	ppm	1.3	1.3	20
	1/1/1996-12/31/1996	0.340	ppm	1.3	1.3	20
	1/1/1994-12/31/1994	0.280	ppm	1.3	1.3	20
	1/1/1993-6/30/1993	0.400	ppm	1.3	1.3	40
	7/1/1992-12/31/1992	0.300	ppm	1.3	1.3	40
Lead	1/1/2002-12/31/2004	1.000	ppb	0	15	20
	1/1/1999-12/31/1999	5.000	ppb	0	15	20
	1/1/1996-12/31/1996	5.000	ppb	0	15	20
	1/1/1994-12/31/1994	7.000	ppb	0	15	20
	1/1/1993-6/30/1993	5.000	ppb	0	15	40
	7/1/1992-12/31/1992	5.000	ppb	0	15	40