

RURAL WATER DISTRICT NO. 5, LABETTE COUNTY

– WATER QUALITY REPORT (COVERS CALENDAR YEAR 2021)

This pamphlet lists water quality information for Rural Water District No. 5, Labette County. It includes limited details on the source and quality parameters and how our water compares to Environmental Protection Agency (EPA) and state standards. It's important that customers be aware of the efforts that are made continually to improve their water system. To learn more, please attend any of the regularly scheduled meetings that are held on the second Thursday of each month at 8 p.m. at the Water Office in Altamont. For more information, contact Beverly Lawellin at 620-778-5797.

The water source for RWD 5 is purchased from Public Wholesale District 4 and also from the City of Parsons. The water is treated to remove contaminants. A disinfectant is also added to protect the water supply against microbial contaminants.

A message from EPA

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. The city treats water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised 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 from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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 (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 before treatment may 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 stormwater 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 and residential uses.

■ **Radioactive contaminants**, which are naturally occurring.

■ **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 stormwater runoff, and septic systems.

■ **Lead**: 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. Your water system 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 thirty seconds to two 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>.

■ **Total Coliform Rule (TCR)**: Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public by newspaper, television or radio. During 2021, the utility collected two samples per month.

Water Quality Data

The table on the reverse side lists all the drinking water contaminants that we detected during the 2021 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless noted, the data presented in this table is from testing done January 1 - December 31, 2021. 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. Some of the data, though representative of the water quality, is more than one year old. The bottom line is that the water that is provided to you is safe.

Terms & Abbreviations

- **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 human health. MCLGs allow for a margin of safety.
- **Maximum Contaminant Level (MCL)**: the "Maximum Allowed" MCL is the highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using best available treatment technology.
- **Secondary Maximum Contaminant Level (SMCL)**: recommended level for a contaminant that is not regulated and has no MCL.
- **Action Level (AL)**: The concentration of a contaminant that, if exceeded, triggers treatment or other requirements.
- **Technique (TT)**: A required process intended to reduce levels of a contaminant in drinking water.
- **Maximum Residual Disinfectant Level (MRDL)**: 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.
- **Non-Detects (ND)**: Lab analysis indicates the contaminant is not present.
- **Parts per Million (ppm)** or milligrams per liter (mg/l)
- **Parts per Billion (ppb)** or micrograms per liter (µg/l)
- **Picocuries per Liter (pCi/L)**: A measure of the radioactivity in water.
- **Millirems per Year (mrem/yr)**: Measure of radiation absorbed by the body.
- **Period Average (MPA)**: An average of sample results obtained during a defined time frame, common examples of monitoring periods are monthly, quarterly and yearly.
- **Nephelometric Turbidity Unit (NTU)**: A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for ground water systems.
- **Running Annual Average (RAA)**: Average of sample results obtained over the most current 12 months and used to determine compliance with MCLs

Testing Results for Rural Water District No. 5, LaBette County

Rural Water District No. 5 had no violations of drinking water regulations in 2021. Because of the monitoring schedules, some test results are more than one year old.

Disinfection Byproducts	Monitoring Period	Highest RAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2021	24	16 - 29	ppb	60	0	By-product of drinking water disinfection
TTHM	2021	37	25 - 44	ppb	80	0	By-product of drinking water chlorination

Lead and Copper	Monitoring Period	90 th Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2017 - 2019	0.038	0.008 - 0.21	ppm	1.3	0	Corrosion of household plumbing
LEAD	2017 - 2019	1.7	0 - 2.8	ppb	15	0	Corrosion of household plumbing

Chlorine/Chloramines Maximum Disinfection Level	MPA	MPA Units	RAA	RAA Units
2021 - 2021	3.7000	MG/L	3.1	MG/L

There are no additional required health effects notices.

There are no additional required health effects violation notices.

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2021 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
BARIUM	5/3/2021	CITY OF PARSONS	0.08	0.08	ppm	2	2	Discharge from metal refineries
CHROMIUM	4/5/2021	PUBLIC WHOLESAL WSD 4	1.1	1.1	ppb	100	100	Discharge from steel and pulp mills
FLUORIDE	10/12/2021	PUBLIC WHOLESAL WSD 4	1.2	0.78 - 1.2	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
NITRATE	4/5/2021	PUBLIC WHOLESAL WSD 4	0.56	0 - 0.56	ppm	10	10	Runoff from fertilizer use
SELENIUM	4/5/2021	PUBLIC WHOLESAL WSD 4	1.5	1.5	ppb	50	50	Erosion of natural deposits

Secondary Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	SMCL
ACETOCHLOR	6/11/2018	CITY OF PARSONS	0.12	0.12	UG/L	
ALKALINITY, TOTAL	5/3/2021	CITY OF PARSONS	140	140	MG/L	300
ALUMINUM	5/3/2021	CITY OF PARSONS	0.049	0.049	MG/L	0.05
CALCIUM	5/3/2021	CITY OF PARSONS	60	60	MG/L	200
CHLORIDE	5/3/2021	CITY OF PARSONS	21	21	MG/L	250
CONDUCTIVITY @ 25 C UMHOS/CM	5/3/2021	CITY OF PARSONS	460	460	UMHO/CM	1500
CORROSIVITY	5/3/2021	CITY OF PARSONS	0.36	0.36	LANG	0
DESETHYLATRAZINE	6/11/2018	CITY OF PARSONS	0.44	0.44	UG/L	
HARDNESS, TOTAL (AS CaCO ₃)	5/3/2021	CITY OF PARSONS	190	190	MG/L	400
IRON	4/5/2021	PUBLIC WHOLESAL WSD 4	0.012	0.012	MG/L	0.3
MAGNESIUM	5/3/2021	CITY OF PARSONS	8.9	8.9	MG/L	150
MANGANESE	5/3/2021	CITY OF PARSONS	0.0021	0.0021	MG/L	0.05
METOLACHLOR	6/29/2021	CITY OF PARSONS	3.2	3.2	ppb	
NICKEL	5/3/2021	CITY OF PARSONS	0.0039	0.0039	MG/L	0.1
PH	5/3/2021	CITY OF PARSONS	8	8	PH	8.5
PHOSPHORUS, TOTAL	4/5/2021	PUBLIC WHOLESAL WSD 4	0.21	0.21	MG/L	5
POTASSIUM	5/3/2021	CITY OF PARSONS	4.8	4.8	MG/L	100
SILICA	4/5/2021	PUBLIC WHOLESAL WSD 4	0.83	0.83	MG/L	50
SODIUM	4/5/2021	PUBLIC WHOLESAL WSD 4	22	22	MG/L	100
SULFATE	4/5/2021	PUBLIC WHOLESAL WSD 4	61	61	MG/L	250
TDS	4/5/2021	PUBLIC WHOLESAL WSD 4	180	180	MG/L	500