

Rural Water District No. 5, Crawford County

– Water Quality Report *(covers calendar year 2016)*

This pamphlet lists water quality information for Rural Water District No. 5, Crawford 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 the regularly scheduled board meetings on the first Wednesday of the month at 8:00 p.m. at 1125 E. 126 Hwy, Pittsburg, KS. Call Carolyn Lamborn at 620/232-5812 for more information.

The water source for RWD 5 is from the District's wells. 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 2016, 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 2016 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, 2016. 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, Crawford County

Regulated Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
BARIUM	3/22/2016	0.23	0.041 - 0.23	ppm	2	2	Discharge from metal refineries
FLUORIDE	3/22/2016	0.52	0.48 - 0.52	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
SELENIUM	3/22/2016	2.3	2.3	ppb	50	50	Erosion of natural deposits

Disinfection Byproducts	Monitoring Period	Highest RAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
TTHM	2016	3	3.2	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	2014 - 2016	0.14	0.033 - 0.23	ppm	1.3	0	Corrosion of household plumbing
LEAD	2014 - 2016	2.6	1.4 - 3	ppb	15	0	Corrosion of household plumbing

Radiological Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
COMBINED RADIUM (-226 & -228)	2/14/2016	4.6	3.7 - 4.6	PCI/L	5	0	Erosion of natural deposits

Secondary Contaminants-Non Health Based Contaminants-No Federal Maximum Contaminant Level (MCL) Established.	Collection Date	Highest Value	Range (low/high)	Unit	SMCL
ALKALINITY, TOTAL	3/22/2016	210	210	MG/L	300
CALCIUM	3/22/2016	95	46 - 95	MG/L	200
CHLORIDE	3/22/2016	130	76 - 130	MG/L	250
CONDUCTIVITY @ 25 C UMHOS/CM	3/22/2016	1100	670 - 1100	UMHO/CM	1500
CORROSIVITY	3/22/2016	0.63	0.44 - 0.63	LANG	0
HARDNESS, TOTAL (AS CaCO3)	3/22/2016	370	200 - 370	MG/L	400
IRON	3/22/2016	0.071	0.071	MG/L	0.3
MAGNESIUM	3/22/2016	33	21 - 33	MG/L	150
MANGANESE	3/22/2016	0.023	0.023	MG/L	0.05
PH	3/22/2016	8.1	7.9 - 8.1	PH	8.5
PHOSPHORUS, TOTAL	3/22/2016	0.065	0.065	MG/L	5
POTASSIUM	3/22/2016	4.5	4.3 - 4.5	MG/L	100
SILICA	3/22/2016	11	11	MG/L	50
SODIUM	3/22/2016	95	66 - 95	MG/L	100
SULFATE	3/22/2016	150	19 - 150	MG/L	250
TDS	3/22/2016	650	370 - 650	MG/L	500
ZINC	3/22/2016	0.034	0.034	MG/L	5

The district was cited for the following violation of drinking water regulations in 2016.

Compliance Period	Analyte	Comments
12/30/2016	LEAD & COPPER RULE - LEAD CONSUMER NOTICE (LCR)	FAILURE TO SUBMIT TO KDHE A CERTIFICATE OF DELIVERY CERTIFYING THAT LEAD SAMPLE RESULTS FROM LEAD AND COPPER MONITORING WAS PROVIDED TO CONSUMERS.

Division of Environment
Bureau of Water
Public Water Supply Section
Curtis State Office Building
1000 SW Jackson - Suite 420
Topeka, KS 66612



Phone: 785-296-5514
Fax: 785-559-4258
www.kdheks.gov

Susan Mosier, MD, Secretary

Department of Health & Environment

Sam Brownback, Governor

CERTIFICATE OF DELIVERY LEAD RESULTS NOTIFICATION FOR LEAD AND COPPER MONITORING PARTICIPANTS

PWS NAME: CRAWFORD CO RWD 5

FEDERAL ID #: KS2003702

REASON FOR NOTICE: Lead & Copper Monitoring Consumer Results for 06/01/2016-09/30/2016

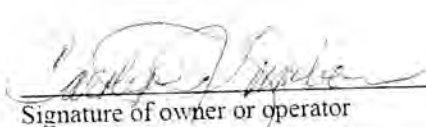
OCCURRING: For Samples Collected 06/01/2016-09/30/2016

Your system is required to notify all participating consumers of their Lead/Copper results within 30 days of receiving sampling results. This certificate of Delivery form must be filled out and returned to KDHE after all patrons are notified of results, within three months following the end of the monitoring period.

The Lead and Copper Rule 2007 Short-Term Revisions require all Public Water Supply Systems provide consumers with results of their most recent lead monitoring within 30 days of the time the system is notified of said results. 141.85(d)(3) states: "an explanation of the health effects of lead, steps consumers can take to reduce exposure to lead in drinking water, contact information for the water utility, the MCLG and the action level for lead, and the definitions for these two terms from §141.153(c) of the CCR Rule." must be included in the notification to participating members. In addition, 141.90(f)(3) requires certification be sent to their state of the notification within three months following the end of the monitoring period.

Consultation with primacy agency (if required) on _____ (insert date) _____ (name of KDHE staff contacted)

Sample results distributed by MAIL (insert method) on 4/17/17 (insert date)


Signature of owner or operator

4/17/17
Date

Return to: Bureau of Water
Public Water Supply Section
1000 SW Jackson; Suite 420
Topeka, KS 66612-1367



Susan Mosier, MD, Secretary

Department of Health & Environment

Sam Brownback, Governor

CERTIFICATE OF DELIVERY FOR PROOF OF PUBLIC NOTICE DISTRIBUTION OF VIOLATION

PWS NAME: CRAWFORD CO RWD 5


FEDERAL ID #: KS2003702

VIOLATION: Failure to Provide Lead Results From Lead and Copper Monitoring to Consumers

OCCURRING: For Samples Collected 06/01/2016-09/30/2016

The public water system indicated above, hereby affirms that public notice has been provided to consumers in accordance with the delivery, content, and format requirements and deadlines in 40 CFR Part 141, subpart Q. (*mark the boxes which have been used to achieve compliance with the public notice requirements*)

- Consultation with primacy agency (if required) on _____ insert date _____ name of KDHE staff contacted
- Notice distributed by Mail insert method on 5/1/17 insert date
- Notice distributed by _____ insert method on _____ insert date
- Attached: Copies of all public notice methods used to reach customers are required to accompany this "Certificate of Delivery". (Refer to 10 required elements on the "Contents of Notice" page)


Signature of owner or operator

5/1/17
Date

Return to: Bureau of Water
Public Water Supply Section
1000 SW Jackson; Suite 420
Topeka, KS 66612-1367