



# Rural Water District No. 3 Miami County, Kansas

## Consumer Confidence Report - 2022 Covering Calendar 2021

This brochure is a snapshot of the quality of the water that we provided last year. Included are the details about where your water comes from, what it contains and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies.

To learn more about your drinking water, please attend any of the regularly scheduled Board meetings which are held the first Tuesday following the first Sunday of each month at the District Office at 7:00 p.m.

For more information please contact, Tricia Culbertson at 913-755-4503

Our drinking water is supplied from another water system through a Consecutive Connection (CC). We purchase water from the **City of Osawatomie** and **PWWSD #13**.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorder, 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) included 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 Hotline (800-426-4791).

Contaminants that may be present in sources water before we treat it include:

**Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, 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 storm water run-off, agriculture and residential users.

**Radioactive contaminants**, which can be naturally occurring or the result of mining activity.

**Organic contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off and septic system.

In order to ensure that tap water is safe to drink, EPA prescribes regulation which limits the amount of certain contaminants in water provided by public water systems. We treat our 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.

Our water system is required to test a minimum of 2 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. 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.

### Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2021 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the 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 the 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 that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the 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.

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

**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.

**Non-Detects (ND):** lab analysis indicates that the contaminant is not present.

**Parts per Million (ppm):** or milligrams per liter (mg/l)

**Parts per Billion (ppb):** or micrograms per liter (ug/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.

**Monitoring 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 groundwater systems.

**Running Annual Average (RAA):** an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs

**Locational Running Annual Average (LRAA):** Average of Sample analytical results for samples taken at particular monitoring location during the previous four calendar quarters.

### Testing Results for Rural Water District No. 3

Microbiological	Results	MCL	MCLG	Typical Source
Coliform (TCR)	In the month of November, 1 sample(s) returned as positive	Treatment Technique Trigger	0	Naturally present in the environment

Disinfection Byproducts	Monitoring Period	RWD#3 Highest RAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
Total Haloacetic Acids (HAAS)	2021	42	27-44	ppb	60	0	By-product of drinking water disinfection
TTHM	2021	75	48-83	ppb	80	0	By-product of drinking water chlorination

Lead & Copper	Monitoring Period	90th Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
Copper, Free	2018-2020	0.064	0.0086 – 0.11	ppm	1.3	0	Corrosion of household plumbing
Lead	2018-2020	1.6	0 - 22	ppb	15	0	Corrosion of household 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. 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 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>.

Chlorine/Chloramines Maximum Disinfection Level	MPA	MPA Units	RAA	RAA Units
2021-2021	1.7000	MG/L	1.6	MG/L

During the 2021 calendar year, RWD#3 had the below noted violation(s) of drinking water regulations.

Compliance Period	Analyte	Type
No Violations Occurred in the Calendar year 2021		

Additional Required Health Effects Language:

Infants and 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 and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the [Safe Drinking Water Hotline 800-426-4791](tel:800-426-4791).

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys or central nervous systems and may have an increased risk of getting cancer.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful bacteria may be present.

There are no additional required health effects violation notices

Some or all of our drinking water is supplied from other 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	Your Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
Atrazine	06/08/2021	PWWSD#13	2.1	2.1	ppb	3	3	Runoff from herbicide used on row crops
Barium	06/10/2021	City of Osawatomie	0.073	0.073	ppm	2	2	Discharge from metal refineries
Fluoride	10/14/2021	City of Osawatomie	0.33	0.21-0.33	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
Nitrate	04/06/2021	PWWSD#13	1.2	0.59-1.2	ppm	10	10	Runoff from fertilizer use

Secondary Contaminants	Collection Date	Water System	Your Highest Value	Range (low/high)	Unit	SMCL
Alkalinity, Total	05/10/2021	City of Osawatomie	140	140	MG/L	300
Aluminum	05/10/2021	City of Osawatomie	0.046	0.046	MG/L	0.05
Calcium	05/10/2021	City of Osawatomie	51	51	MG/L	200
Chloride	05/04/2021	PWWSD#13	20	20	MG/L	250
Conductivity @25 C UMHOS/CM	05/04/2021	PWWSD#13	330	330	UMHO/CM	1500
Corrosivity	05/10/2021	City of Osawatomie	0.33	0.33	LANG	0
Hardness, Total (as CaCO3)	05/10/2021	City of Osawatomie	160	160	MG/L	400
Magnesium	05/10/2021	City of Osawatomie	8.8	8.8	MG/L	150
Metolachlor	06/08/2021	City of Osawatomie	1.2	1.2	ppb	
Nickel	05/10/2021	City of Osawatomie	0.0036	0.0036	MG/L	
PH	05/10/2021	City of Osawatomie	8.1	8.1	PH	8.5
Potassium	05/04/2021	PWWSD#13	3.4	3.4	MG/L	100
Silica	05/10/2021	City of Osawatomie	3.9	3.9	MG/L	50
Sodium	05/10/2021	City of Osawatomie	18	18	MG/L	100
Sulfate	05/10/2021	City of Osawatomie	35	35	MG/L	250
TDS	05/10/2021	City of Osawatomie	220	220	MG/L	500
Zinc	05/04/2021	PWWSD #13	0.0069	0.0069	MG/L	5

**Please Note; Because of sampling schedules results may be older than 1 year.**

During the 2020 calendar year, the water systems that we purchase water from had the below noted violation(s) of drinking water regulations.

Water System	Type	Category	Analyte	Compliance Period
City of Osawatomie	Inadequate DBP Precursor Removal	TT	Carbon Total	03/01/2021 – 03/31/2021
City of Osawatomie	Inadequate DBP Precursor Removal	TT	Carbon Total	06/01/2021 – 06/30/2021
City of Osawatomie	Monitoring Routine (IESWTR/LT1), Major	MON	Turbidity	03/01/2021 – 03/31/2021
City of Osawatomie	Monitoring, RTN/RPT Major (SWTR-Filter)	MON	Chloramine	03/01/2021 – 03/31/2021